Lab Companion®

Three-zone Thermal Shock Test Chamber Technical specification





[Introduction]

This kind of test chamber consists of 3 zones: heat zone, cold zone and ambient zone. Three temperature zones can be simulated in the same chamber. This makes optimum stress conditions possible without having to move the test specimen.

[Performances]

Thermal Shock Test Chambers		TS3-50	TS3-80	TS3-150
Test space volumes	L	50	80	150
Test space dimensions, H x W x D, approx.	mm	460x350x300	500x400x400	600x500x500
Exterior housing dimensions, II x W x D, approx.	mm	1420x1810x1380	1460x1860x1480	1560x1960x1580
Pre-tempering hot chamber	°C	+50 to +200	+50 to +200	+50 to +200
Pre-tempering cold chamber	°C	-70 to 0	-70 to 0	-70 to 0
Ambient chamber	°C	-65 to +150	-65 to +150	-65 to +150
Temperature deviation in time	°C	± 2	± 2	± 2
Cemperature homogeneity in space	°C	≤2	≤2	≤2
Temperature stability	°C	±0.5	±0.5	±0.5
Maximum load grid shelf	kg/layer	30	30	30
Heating time of pre-tempering hot chamber	min	≤40	≤40	≤40
Cooling time of pre-tempering cold chamber	min	≤90	≤90	≤90
hangeover time	sec	< 10s	< 10s	< 10s
emperature recovery time	min	≤5min	≤5min	≤5min

[Features]

☆ One chamber for everything

Using the damper shock method, 3 temperature zones (cold, hot, ambient) can be simulated in the same chamber. This makes optimum stress conditions possible without having to move the test specimen

*Load test equipment easily

The basic version has an access port on the left with a 50 mm diameter for the placement of cables and connections. Movements of the loaded cables are avoided by the stationary test space.

₩Well distributed, efficiently tested

The test specimens can be distributed on up to seven insert grids, making an increased test throughput of up to 150 kg possible.

