



Technical Parameters

Temperature Shock Test Chamber (Two Boxes) - TSM Series



TSM series temperature shock test chamber can provide high temperature and low temperature test spaces, the test piece is transferred in the two spaces through the basket, to achieve the thermal shock test of rapid temperature change between the upper and lower limit temperatures.

Model		401FL	501SL	601SL	402SL	502SL	602SL	403SL	503SL	603SL	405SL	505SL	605SL	410SW	510SW	610SW	420SW	520SW	
Volume	L	125	125	125	250	250	250	358	358	358	486	486	486	1243	1243	1243	2184	2184	
Basket Depth	mm	300	300	300	400	400	400	500	500	500	650	650	650	800	800	800	1000	1000	
Basket Width	mm	300	300	300	400	400	400	500	500	500	650	650	650	800	800	800	1000	1000	
Basket Height	mm	300	300	300	400	400	400	500	500	500	650	650	650	800	800	800	1000	1000	
Inner Depth	mm	500	500	500	605	605	605	705	705	705	850	850	850	1000	1000	1000	1200	1200	
Inner Width	mm	500	500	500	700	700	700	800	800	800	900	900	900	1130	1130	1130	1300	1300	
Inner Height	mm	500	500	500	590	590	590	635	635	635	650	650	650	750	750	750	800	800	
Outer Depth	mm	2200	1950	2110	1810	1810	2330	1910	1910	1910	2050	2050	2550	1810	1810	1810	2150	2150	
Outer Width	mm	1180	1180	1180	1390	1390	1460	1490	1490	1490	1590	1590	1620	3360	3360	3360	4500	4500	
Outer Height	mm	1790	1790	2100	1850	1850	2220	2100	2100	2100	2030	2030	2380	2290	2290	2290	2050	2050	
Chamber Structure		Vertical												Horizontal					
Temperature Performance Parameters																			
Temperature Range (High Temperature Chamber)	℃	RT+25~180																	
Temperature Range (Low Temperature Chamber)	℃	-70~-10																	
Impact Temperature (High Temperature)	℃	150																	
Impact Temperature (Low Temperature)	℃	-40	-50	-60	-40	-50	-60	-40	-50	-60	-40	-50	-60	-40	-50	-60	-40	-50	
Conversion Time	s	15																	
Recovery Time	min	5																	
Heating Time (High Temperature Chamber)	min	RT→180℃≤60min																	
Cooling Time (Low Temperature Chamber)	min	RT→-65℃≤60min																	
Load (Aluminum ingots)	kg	5			10			15			20			40			60		
Temperature Fluctuations	℃	≤1																	
Temperature Uniformity	℃	≤2																	
Temperature Deviation	℃	±2																	
Power Supply		AC380V 50Hz TN-S																	
Power	kW	18	18	21	21	24	26	24	30	44	30	44	55	45	67	76	67	79	
Noise	dB(A)	70	70	72	70	72	75	72	72	75	72	75	75	75	75	78	75	78	
Cooling Method		Air-cooled			Water-cooled														
Total Weight	kg	800	850	920	900	950	1100	1100	1160	1280	1200	1350	1500	1300	1450	1620	1700	1900	

Note:

1. Cooling rate: air-cooling is assessed in the range of 23±3 °C, water-cooling is assessed in the range of cooling water temperature of 5~28 °C.
2. Linear heating rate: calculated as 5min average.
3. Dimensions: excluding the controller, handle, hinge, test hole, fan motor and other removable protrusions, the depth may be slightly adjusted due to the different compressors.
4. Parameters are subject to change upon request.