



Technical Parameters

High and Low Temperature and Low Pressure Test Chamber – SDP Series



SDP series Low pressure test chamber can provide high temperature, low temperature, altitude, humidity and other environmental simulation conditions, used in aviation, aerospace, automobile, shipbuilding, military, information, electronics and other fields of environmental test or reliability test.

Model		702S	702SH	705S	705SH	710S	710SH	720S	720SH						
Volume	L	280(210)		630(504)		1210(1000)		2460(2016)							
Inner Depth	mm	500		700		1000		1200							
Inner Width	mm	600		800		1000		1200							
Inner Height	mm	700		900		1000		1400							
Outer Depth	mm	2660		2865		3415		3615							
Outer Width	mm	1000		1200		1400		1600							
Outer Height	mm	1620		1950		2020		2320							
Temperature Performance Parameters															
Temperature Range	°C	-70~150													
Heating Time	min	20°C → Max. Temperature ≤ 60min (Empty Load)													
Cooling Time	min	20°C → Min. Temperature ≤ 60min (Empty Load)													
Temperature Change Rate	°C/min	1°C/min (-55~+85°C, linear)													
Load (Aluminum ingots)	kg	10		25		25		25							
Heating Power	W	5		12		15		18							
Temperature Fluctuations	°C	≤ 1													
Temperature Uniformity	°C	≤ 2													
Temperature Deviation	°C	≤ ± 2													
Pressure Performance Parameters															
Ultimate Pressure	kPa	1													
Pressure Reduction Time	min	Atmospheric → 1kPa ≤ 45min													
Pressure Recovery	kPa/min	≤ 10													
Pressure Deviation		Atmospheric~40kPa: ≤ ± 2kPa; 4kPa~40kPa: ≤ ± 5%kPa; Less than 4 kPa: ≤ ± 0.1kPa													
Temperature and Humidity Climate Parameters															
Temperature Range	°C	20~85													
Humidity Range	%RH	20~98													
Temperature Fluctuations	°C	≤ 1													
Temperature Gradient	°C	≤ 1													
Temperature Deviation	°C	± 2													
Humidity Fluctuations	%RH	≤ 2													
Humidity Deviation	%RH	+2/-3%RH (Humidity > 75%RH), ± 5%RH (Humidity ≤ 75%RH)													
Humidity Uniformity	%RH	≤ 2													
Heating Power	kW	4.5		4.5		9		9							
Vacuum Pump	kW	0.55(SV16B)		0.55(SV16B)		0.9(SV25B)		1.5(SV40B)							
Power Supply		AC380V 50Hz TN-S													
Maximum Current	A	40	40	60	60	72	72	95	95						
Total Power	kW	16	20	30	34.5	41	50	51	60						
Noise	Db(A)	≤ 75													
Cooling Water Flow	m³/h	3	3	4.5	4.5	10	10	15	15						
Total Weight	kg	950	1050	1400	1500	1800	1900	2600	2800						

Note: Parameters are subject to change upon request.