

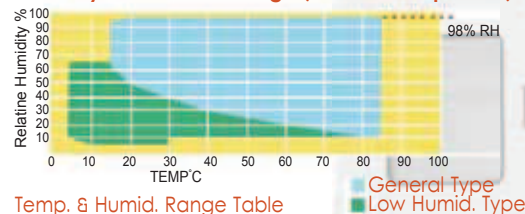


Features: Adjustable stainless steel shelves • Optional 100mm chart recorder • Over / under temp. protection devices • Automatic water level control • Volumes from 36 litre up to 800 litres • Viewing window with interior light • Stainless steel access ports with plug, for convenient access to test items • Swivel casters for mobility • Easily accessible service areas • Stainless steel internal chamber • Solid state heating & humidity switching • Stainless steel humidity generator with viewing window • Low water level humidity heater protection • Wet Dry bulb humidity sensor • Refrigeration system: high efficiency, maximum • reliability & low vibration & low noise. The air cooled refrigeration is working with CFC free refrigerant. The total cooling circuits is working with solenoid valve bypass technique ensuring that

Temp.&Humidity Environmental Chamber

Temperature and Temperature/Humidity test chambers provide superior performance over a wide range of applications. From prototyping to durability to product component screening tests, the chambers has been designed to meet quality standards while still offering flexibility uniformity and control accuracy for cost-effective testing. Available in a multitude of chamber sizes, MRC is sure to have the exact chamber that best meets your environmental test criteria. For testing smaller products or for customers with limited space, MRC offers chambers starting at 36liter capacity up to 800 liters. MRC Test Chambers are able to perform both high and low temperature tests. Many of these chambers have a temperature range of -70°C to +150°C. Hermetically sealed compressors provide moderate temp. change rates while allowing the chamber to consume less power than comparable chambers. Temp./ Humidity models are equipped with a reliable, accurate and efficient full range humidity system capable of simulating conditions from 20 to 98% RH.

Humidity Controllable Range (at room temp. 20°C)



Temp. & Humid. Range Table

the compressor will only be disconnected if cooling capacity has not been required for a prolonged period • Heating system: low mass electric resistance heater is located directly in front of the recirculating air blower. The PID microprocessor controllers with the solid state relays allows extremely precise and constant control.

Model Programmer		HP-30	HP-40	HP-50	HP-60	HP-80	FP-40	FP-50	FP-60	FP-80	LP-40	LP-50	LP-60	LP-80	TP-50	TP-60	TP-80	
Model Controller		HG-30	HG-40	HG-50	HG-60	HG-80	FG-40	FG-50	FG-60	FG-80	LG-40	LG-50	LG-60	LG-80	TG-50	TG-60	TG-80	
Internal Dimensions (mm)	W	300	400	500	700	1000	400	500	700	1000	400	500	700	1000	500	700	1000	
	H	400	500	600	850	1000	500	600	850	1000	500	600	850	1000	600	850	1000	
	D	300	400	500	700	800	400	500	700	800	400	500	700	800	500	700	800	
External Dimensions (mm)	W	720	930	1030	1230	1530	930	1030	1230	1530	930	1030	1230	1530	1030	1230	1530	
	H	1060	1310	1410	1660	1810	1310	1410	1660	1810	1310	1410	1660	1810	1410	1660	1810	
	D	620	810	910	1210	1310	810	910	1210	1310	810	910	1210	1310	910	1210	1310	
Volume (liters)		36	80	150	416	800	80	150	416	800	80	150	416	800	150	416	800	
Temperature Range		0°C~100°C(150°)					-20°C~100°C(150°)				-40°C~100°C(150°)				-70°C~100°C(150°)			
Humidity & Temp. Uniformity		±0.5°C ±3%RH				±1°C ±5%	±0.5°C ±3%RH			±1°C ±5%	±0.5°C ±3%RH			±1°C ±5%	±0.5°C ±3%RH		±1°C ±5%	
Temp. Rising Speed		0°C~100°C about 20min					-20°C~100°C about 35min				-40°C~100°C about 40min				-70°C~100°C about 60min			
Cooling Speed		20°C~0°C about 20min					20°C~-20°C about 45min				20°C~-40°C about 60min				20°C~-70°C about 90min			
Freezing System		Simoleon type full airtight air-cooled refrigeration system									Binary full airtight air-cooled refrigeration system							
Humidity Range		20%~98%RH						Temp. &humid. stability				±0.2% ±2%RH						
Temp. & Humidity Adjustment		Balancing temperature & humidity adjustment method						External material				SUS304#Stainless steel						
Internal Material		SUS304#Stainless steel						Humidification				Surface Steam type, stainless heating humidifier, with humid. water shortage power interruption & thermal protection						
Temp. Preservation		Material rock wool hard PU polyurethane foams						Temp. preservation heating system				Stainless steel heating type humidifiner						
Circulation System		Fan forced recycling convection						Xeransis system				refrigeration invisible heat xeransis method						
Water Supply System		Front-positioned water tank, fully automatic water supply control, recycling filter re-utilization with water shortage alarm device																
Safety Device		Power leakage & overload protective device, compressor overload protective device, over-temperature & over-humidity circuit breaker protection, water shortage protection, humidifier over-heating protection, temperature limit protective device.																
Standard Accessory		2xStainless steel adjustable board sets, vacuum glass perspective window, testing aperture, operating room light,motion wheel, control indicator																
Optional Accessory		Recorder							Power			AC220V, 1PH, 50/60Hz						