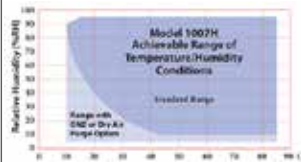


Model 1207C Temp/Humidity Chamber Specifications	
Temperature Range	-75°C to +175°C
Control Tolerance	±0.2°C (Measured at the control sensor after stabilization)
Uniformity	±0.5°C (Variations throughout the chamber after stabilization)
Humidity Range	Standard Range: 10% to 95% (Limited by a 6°C dewpoint and maximum dry bulb of +85°C) With optional GN2 Purge: 5% to 95% (Dry bulb range of +10°C to +85°C)
Control Tolerance	±2% RH
Humidity Sensor	Dynamic capacitive type (no wet wicks required)



Cool Down T ransition T ime* (uncontr olled humidity mode)						
End T emp						
Start Temp	+23°C	0°C	-40°C	-55°C	-65°C	-75°C
+85°C	18 min	26 min	46 min	58 min	68 min	Ultimate

Heat Up T ransition T ime* (uncontr olled humidity mode)						
End T emp						
Start Temp	+23°C	+50°C	+85°C	+125°C	+150°C	+175°C
+23°C	-----	1.5 min	7 min	14 min	20 min	25 min
0°C	1.5 min	3.5 min	13 min	20 min	23 min	31 min
-40°C	6 min	11 min	17 min	24 min	30 min	35 min
-55°C	8 min	13 min	19 min	26 min	32 min	37 min
-65°C	10 min	14 min	21 min	28 min	34 min	39 min

Rate Of Change
To calculate rate of change for a particular condition, take the difference between the Start Temp and End Temp and divide by the Transition Time.
Cool Down Example: From +85°C to -40°C = 125°C / 46 min = 2.7°C/min.
Heat Up Example: From -40°C to +85°C = 125°C / 17 min = 7.35°C/min.

*Note: Transition times are measured after a 2 hour soak at the respective start temperature with an empty chamber

Live Load Capacity (uncontrolled humidity mode)				
+23°C	0°C	-40°C	-55°C	-65°C
1,000 Watts	800 Watts	500 Watts	400 Watts	300 Watts

Refrigeration and Heating System	
High Stage Refrigerant	R-404A (Dupont HP-62)
Low Stage Refrigerant	R-508B (Dupont SUV A-95)
Compr essors	1 HP x 1 HP Copeland hermetic compressors ina cascade configuration.
Condenser	Air Cooled
Air Heater Power	2,000 Watts
Humidifier Heater Power	1,000 Watts (rating at 240V)

Instrumentation		
Temp/Humidity Contr oller	256 step, 40 profile, ramp and soak programmable memory.RS-232/485 interface. More details. >>	
Limit Contr oller	Independent high and low temperature limits. T riggers an audible alarm and shuts down the chamber. Relay contacts provide a safety power interlock for test sample.	
Chart Recorder	(Optional) Honeywell DR4300 Series. Two pen, 10" circular chart. Mounts in lower front door	

Input Power Requirements			
	Phase	Current Draw	Minimum Service
230 V ±10%, 60 Hz	1 PH	25 A	30 A
	3 PH	19 A	25 A
208 V -5/+10%, 60 Hz	1 PH	28 A	35 A
	3 PH	21 A	30 A

Input may be configured for single or three phase in the field by changing jumperThree phase load is semi-balanced. Call for other voltages or 50 Hz operationCooling performance is reduced 17% at 50 Hz.

Customer power source must be hard-wired to the chamber by a qualified electrician. Power cord and plug is not included.

Humidity Water Requirements	
Supply and Drain	Must be provided with a water line and floor drain. Negligible consumption.
Water Recir culation System (optional)	Provides a reliable supply of filtered water for the humidity system. Perfect for installations where a water line and drain are not available.

Physical Characteristics and Safety	
Inside Dimensions	24" W x 21" H x 24" D (7 cubic feet) 609 mm W x 533 mm H x 609 mm D (198 liters)
Outside Dimensions	33" W x 68.75" H x 50" D (nominal) 838 mm W x 1746 mm H x 1270 mm D
Door latch adds 3" to width on right side (may be removed to permit move-in through a 36" doorway). Circulator motor and housing adds 6" to height.	
Minimum Installed Clearance	18" from the left and right side 24" from the rear
Window Viewing Area	13" W x 13" H
Access Ports	4" Port on left and right side (two total) Supplied with foam plugs
Weight	Chamber Weight: 850 pounds Shipping Weight: 1,000 pounds

NOTE: Performance is typical and based on operation at 23°C (73°F) ambient and nominal input voltage. Designed for use in a normal conditioned laboratory. Operation at higher ambient temperatures may result decreased cooling performance. Additional ports and shelves will also affect performance. Operation above 30°C (85°F) or below 16°C(60°F) ambient is not recommended.