

TK1212 - TestEquity 1027C Temperature Chamber

Model: 1027C Temperature Chamber

SKU:

Year:



Description:

TestEquity 1027C Temperature Chamber

Model: 1027C

SN: 50311

Specifications:

Temperature Range: -73°C to +175°C

Controller Tolerance: $\pm 0.2^{\circ}\text{C}$ (Short-term variations measured at the control sensor after stabilization)

Uniformity: $\pm 1.0^{\circ}\text{C}$ (Variations throughout the chamber after stabilization)

High Stage Refrigerant: R-404A

Low Stage Refrigerant: R-508B

Compressors: 3.5 HP x 3.5 HP Copeland scroll compressors in a cascade configuration

Condenser: Air Cooled

Heat of Rejection: 27,500 BTUH (maximum rated chamber load at maximum cooling rate from high temperature soak)

Heater Power: 4,000 Watts @ 208 V input

Air Flow: 630 cfm

Chart Recorder: (Option) Honeywell DR4300 Series. One pen, 10" circular chart. Mounts in

lower front door

INPUT Power: 208/230V, 25/29 A Max. 3 Phase, 60 Hz

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 (empty): From +85°C to -40°C = 125°C / 28 min = 4.5 °C/min.

Cool Down Example (with 80 lb. load): From +85°C to -40°C = 125°C / 48 min = 2.6°C/min.

Heat Up Example (empty): From -40°C to +85°C = 125°C / 17 min = 7.35°C/min.

Heat Up Example (with 80 lb. load): From -40°C to +85°C = 125°C / 29 min = 4.3°C/min.

Physical Characteristics and Safety:

Inside Dimensions: 40" W x 32" H x 36.5" D (27 cubic feet)

Outside Dimensions: 49" W x 73.25" H x 63" D (nominal) - Door latch adds 3" to width on right side. Circulator motor and housing adds 6" to height - may be removed for move-in

Minimum Installed Clearance: 18" from the left and right side, 24" from the rear

Window Viewing Area: 16" W x 13" H

Weight: 1560 lbs (shipping weight: 1744 lbs)

