

# PRODUCT SPECIFICATION SHEET

## Thermotron HPS-16 Fast Ramp Temperature Chamber

### PRODUCT OVERVIEW

The Thermotron HPS-16 is a high-performance fast ramp temperature chamber designed for accelerated environmental testing. With 16 cubic feet of workspace and temperature change rates up to 5°C/min, this chamber is ideal for reliability testing, thermal cycling, and product qualification. Features cascade refrigeration system with dual compressors for extreme low temperature capability.

### TECHNICAL SPECIFICATIONS

Parameter	Specification
Manufacturer	Thermotron Industries (Holland, MI, USA)
Model	HPS-16
Serial Number	15961RF
Interior Volume	16 cu. ft. (453 liters)
Interior Dimensions	30"W x 30"D x 30"H (762 x 762 x 762mm)
Temperature Range	-70°C to +170°C (-94°F to +338°F)
Temperature Ramp Rate	5°C/min (heating and cooling)
Electrical	460V, 3-Phase, 60Hz
Max Load	22.5 Amps
Recommended Service	30 Amps
Largest Motor	5 HP (7.5 Amps)
Refrigerant (Primary)	R-508B (5 lbs)
Refrigerant (Secondary)	R-404A (12 lbs)
Standby Pressure	R-508B: 105 PSI
Cooling System	Cascade (2 x 5HP Compressors)
Interior Construction	Stainless Steel
Exterior Construction	Powder Coated Steel
Controller	Watlow F4 Programmable (upgradeable to F4T Touchscreen)

## **KEY FEATURES**

- Fast temperature ramp rate: 5°C/min
- Wide temperature range: -70°C to +170°C
- Large 16 cu. ft. workspace (30" x 30" x 30")
- Cascade refrigeration for reliable low-temp operation
- Programmable controller with test profiles
- Viewing window with interior light
- Stainless steel interior, easy to clean
- Heavy-duty construction for industrial use

## **APPLICATIONS**

- Thermal cycling and temperature shock testing
- Electronic component reliability testing
- Automotive parts qualification
- Aerospace component testing
- Battery and energy storage testing
- Military/defense environmental simulation
- Product development and R&D;

## **CONTACT FOR PRICING**

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