

ThermalAir TA-5000

An Evolution in localized Temperature Test Systems



More Technology More Control More Temperature Capacity More Energy Saving

Unique architecture of the ThermalAir TA-5000 creates unprecedented performance while saving up to 50% on electricity/energy/power!

Extremely Low Audible Noise
Built-in DC Chiller for engineering lab environment

Active Temperature Control and Settable Ramp Rates for Temperature Profiling, Cycling, Thermal Stock and Testing directly at application on the bench Top and Production Floor

Versatile Positioning Boom Arm & Stand compatible with test site pitches and hard to reach applications

Quick & Easy Interchangeable temperature head accessories [No hardware or tools required]

Performance Plus! - Productivity!

- Continuous Air Flow up to 20 SCFM at -80°C/+225°C
- -55°C to +125°C / +125°C to -55°C in less than 10 sec
- Ultra Stable DC Temperature Control
- Frost Free Operation / Built-in Air Dryer
- No LN2 or CO2 Required
- CFC Free / CE Mark

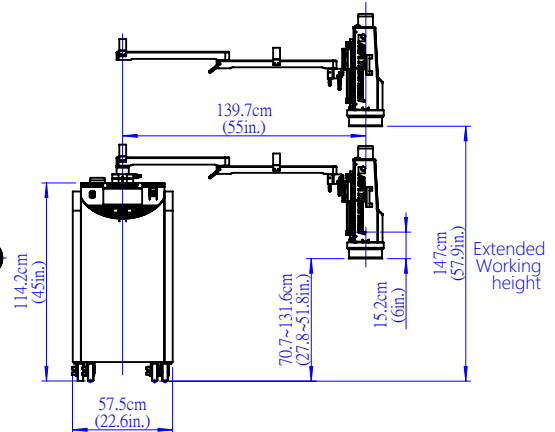
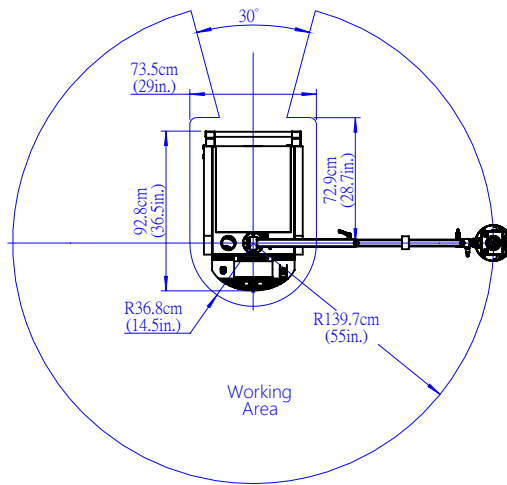
- Two Color Touch Screen Displays Front Panel & Head
- USB & SSD Thermal File Management & Data Logging
- Easy Roll Around wheels for portability
- Plug-in Anywhere 200 to 250VAC, 50/60Hz [No configuration required]



TA-5000A ThermalAir

Temperature conditioning System

Specifications



- **Full Inline Interface for all communication control Requirement**
4 USB-Type A, 1 USB-Type B, VGA, LAN, RS-232, T-Type, K-Type and RTD temperature sensors PLUS Auto Start Test & End of Test for automatic temperature cycling Hot-Cold-Amb. All this makes for simple control and service ability.

Specifications

Temperature Performance & Airflow Capacity

Temperature Range	-80°C to +225°C (50 / 60Hz same system)
Typical Temperature Transition Rate	-55°C to +125°C / +125°C to -55°C <10 sec
Temperature Accuracy	± 1.0°C (calibrated system)
Temperature Resolution	± 0.1°C
Temperature Air Output System	1.0 l/s to 10 l/s (2 to 20 SCFM) Continuous
Temperature Control Methods	Internal Air Temperature and Remote External Type T, K, RTD (TC Sensors)

Note: Systems Temperature Range is NOT Reduced@ 50Hz or @ High Air Flow Output Rates

Facility Requirements / Dimensions & Weights

Base Unit & System Weight	W=57.5cm(22.6in.),D=92.8cm(36.5in.),H=136.3cm(55.7in.) Un-packed : 265kg(584 lbs) / Packed : 395kg (870 lbs)
Portability	Static dissipative, four easy roll swivel caster wheels
Maximum Reach	139.7cm (55 in.)
Maximum & Minimum Heights	Standard:70.6~131.6cm(27.8~51.8in.)/Extended: 85.9~146.9cm(33.8~57.9in.)
Hi Temp Glass Cap Enclosures	7.1 inch I.D., 5.9 inch I.D.,2.5 inch I.D., Standard. Optional size available
Noise Level	<59 dBA average
Power	System operates both at 50Hz & 60Hz 200 ~ 250VAC (220 Nominal), 60 / 50Hz, 20amp,1 phase

(New Chiller Technology provides full range of temperature -80°C to +225°C from 2 to 20 SCFM for 60 / 50Hz)

Compressed Air

Clean, Dry Air (CDA)	Filtered to 5µ particulate contamination Oil Content: < 0.10 ppm by weight and filtered to 0.01µ oil contaminants
Input Air Dewpoint	+10°C dewpoint or dryer @90PSI (6.2 BAR)
Input Air Pressure	90 to 110 PSIG (6.2 to 7.6 BAR)
Input Air Flow	15 to 30 SCFM (7.2 to 14.3 l/s) 25 SCFM nominal
Input Air Temperature	+15° to +25°C, +22°C nominal
Operating Temperature Environment	+15° to +28°C, +23°C nominal
Operating Humidity	0 to 60% RH, 45% nominal