

# **ThermalAir TA-3000B**

## An Evolution in Localized Temperature Test Systems

**More Technology**

**More Control**

**More Temperature Capacity**

**More Energy Saving**



### Performance Plus! - Productivity!

- Temperature Range -65°C to +225°C
- Flow Rates 4-16 SCFM
- -40°C to +125°C / +125°C to -40°C in less than 10 sec
- Ultra Stable DC Temperature Control
- Frost Free Operation/ Built-in Air Dryer
- No LN<sub>2</sub> or CO<sub>2</sub> Required
- CFC Free/ CE Mark

### Flexibility

- Built-in color touch screen display GUI
- USB & SSD Thermal file management & data logging
- Easy roll around wheels for portability
- Plug-in anywhere 200 to 250VAC, 50/60Hz  
[ No configuration required ]

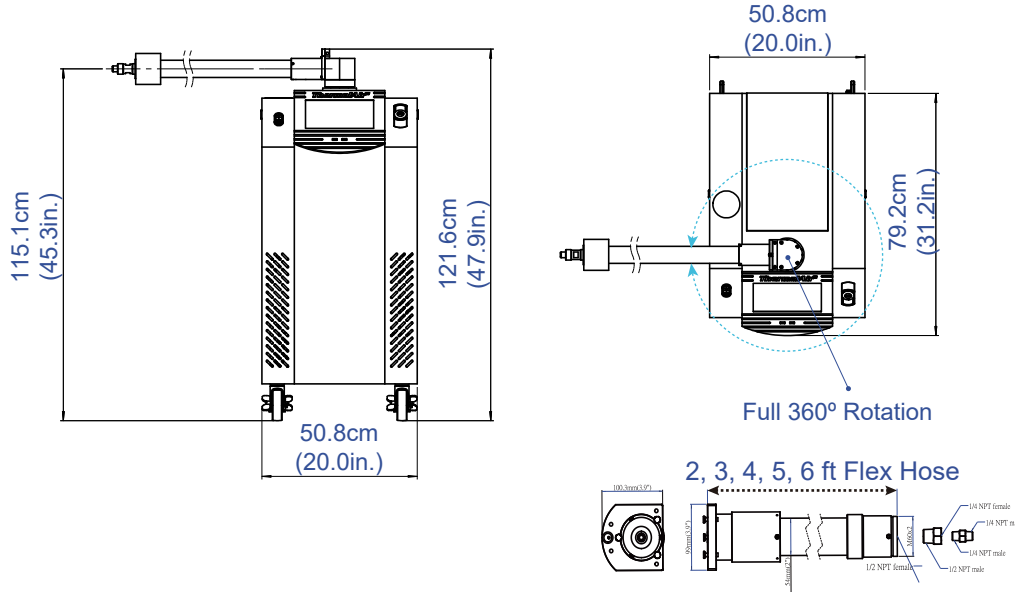
Unique architecture of the **ThermalAir TA-3000** creates unprecedented performance while saving up to 50% on electricity/energy/power!

- Extremely low audible noise refrigeration built-in DC chiller for engineering lab environment
- Active temperature control and settable ramp rates for temperature profiling, cycling, thermal shock and testing directly at application on the bench top and production floor
- Flex Extender Air Transfer Hose available in 2 to 6 ft. lengths provides maximum flexibility and reach, in the lab, on the benchtop, or in the production line. [No hardware or tools required]

**ThermalAir TA-3000B**  
**Temperature conditioning System**

**Specifications**

**Dimensions**



**Full interface for all communication control requirements**

3 USB-Type A, 1 USB-Type B, IEEE-488, 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 these are made for simple control and serviceability.

**Specifications**

**Temperature Performance & Airflow Capacity**

Temperature Range	-65°C to +225°C (50/60Hz same system)
Typical Temperature Transition Rate	-40°C to +125°C / +125°C to -40°C <10 sec
Temperature Accuracy	± 1.0°C (calibrated system)
Temperature Resolution	± 0.1°C
Temperature Air Output System	4 to 16 SCFM (1.9 l/s to 7.5 l/s) Continuous
Temperature Control Methods	Environmental Internal Air TC and Remote External Type T, K, RTD (TC Sensors)

Note<sup>1</sup> : Systems DO NOT degrade @50Hz or @High Air Flow Output Rates

Note<sup>2</sup> : Under nominal operating conditions ultimate low temperatures (±1.0°C) achieved at 12 SCFM

**Facility Requirements / Dimensions & Weights**

Base Unit & System Weight	W=50.8cm (20.0in.), D=79.4 cm (31.3in.), H=121.6cm (47.9in.) Un-packed: 225kg (496 lbs) / Packed: 305kg (672 lbs)
Portability	Static dissipative, four easy roll swivel caster wheels
Noise Level	<52 dBA average / Full performance at 50 Hz operation
Power	System operates both at 50Hz & 60Hz 200 - 250VAC (220 Nominal), 60 / 50Hz, 20amp, 1 phase

**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 120 PSIG (6.2 to 8.3 BAR)
Input Air Flow	11 to 26 SCFM (5.2 to 12.3 l/s) 21 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

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**MPI Thermal ThermalAir TA-3000B**