

Air-Jet XE™ Precision Temperature Cycling System

The Airjet delivers:

- -75° to +225°C in compact size
- Fastest benchtop temperature cycling rates
- Self-contained design doesn't require liquid nitrogen or other external temperature source
- Temperature control and monitoring from either an external or internal thermocouple
- Excellent stability, accuracy and repeatability
- Several multi-step profiles saved, loaded and run at the touch of a button
- Compatibility with automatic test equipment using GPIB or RS485 interface
- Flow rates adjustable from 1.0 to 6.0 scfm
- Small enough to be rack mounted

Options:

- Manual holding arm with pneumatic up/down for positioning and securing head over DUT
- Optional Air Dryer lets you use shop air ~ includes pressure regulator, pressure gauge, oil filter, particle filter, and heatless regenerative air dryer
- Assortment of thermal caps available for different applications
- Mobile Integrator with casters for mobility

Full Mil-Spec Temperature Range at Your Bench



The Airjet XE delivers robust testing capabilities at your bench, using widely available air and 110 volt facilities (220 volt also available).

AirJet Physical Characteristics

Controller Dimensions:	9.3" W x 7" D x 8.2" H (23.6 cm x 17.8 cm x 20.8 cm)
Refrigeration Dimensions:	14.9" W x 23.7" D x 16.12" H (37.9 cm x 60.19 cm x 40.9 cm)
Airjet Dryer Dimensions:	12" W x 8" D x 27" H (30.7 cm x 20.3 cm x 70.6 cm)
Weight:	Controller: 9.0 lbs. (4.08 kg) Refrigeration: 120.0 lbs. (54.4 kg) Dryer:(optional) 43.0 lbs. (19.5 kg)

Air-Jet XE™ Specifications

Temperature Range	XE751_01	XE752_01	XE753_01
2 scfm	-75° C to +225° C	-75°C to +225°C	-75° C to +225° C
3 scfm	-55° C to +185° C	-55° C to +225° C	-55° C to +225° C
4 scfm	-35° C to +145° C	-35° C to +225° C	-35° C to +225° C
5 scfm	-25° C to +125° C	-25° C to +225° C	-25° C to +225° C
6 scfm	-15° C to +100° C	-15° C to +200° C	-15° C to +225° C

Transition Data

2 scfm	-55° C to +125° C, <10 seconds	-55° C to 125° C, <10 seconds	-55° C to +125° C, <10 seconds (est.)
2 scfm	+125° C to -55° C, <20 seconds	+125° C to -55° C, <20 seconds	+125° C to -55° C, <20 seconds (est.)
4 scfm	-25° C to +100° C <10 seconds	-25° C to +125° C, <10 seconds	-25° C to +125° C <10 seconds (est.)
4 scfm	+100° C to -25° C, <20 seconds	+125° C to -25° C, <20 seconds	+125° C to -25° C, <20 seconds (est.)

System Requirements

Electrical	120 VAC, 50/60 Hz 1 Phase, 15A	120 VAC, 50/60 Hz 1 Phase, 20A	220 VAC, 50/60 Hz 1 Phase, 13A
Temperature	23° C to 30° C (72° F to 86° F)		
Humidity	<75% RH		
Air	Clean Dry Air (CDA): 7 SCFM (3.3 l/s) at 75 PSI (5.2 BAR), -80° C Dew point With optional air dryer: CDA: 10 SCFM (4.7 l/s) at 100 PSI (6.9 BAR), +10 C Dewpoint		

Safeties

Built-in overtemperature safety/indicator
Built-in low flow safety/indicator

Other Specifications (on all models)*

Control	PID	Thermocouple	Type K
Stability	± 0.5°	Flow (output)	1 to 6 SCFM (0.5 l/s to 2.8 l/s)
Repeatability	± 0.5°	Air transfer line	8ft. (2.4m)
Resolution	0.1° C	Refrigeration	Dual Stage Cascade Refrigeration System



Air-Jet™ Accessories

General Accessories

Thermal Caps

Model	Description	Model	Description
THJ-TC1	Thermocouple kit	SH35T1	Transparent, 3.5" ID x 2" Deep
		SH45T1	Transparent, 4.5" ID x 2" Deep
		SH55T1	Transparent, 5.5" ID x 2" Deep

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