

AirJet 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



Call **800-824-0400** or
visit www.ftssystems.com

Full Mil-Spec Temperature Range at Your Bench



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)
Air Dryer Dimensions: (optional)	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)

Airjet Specifications

XE751_00

XE752_00

XE753_00

Temperature Range

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	110 VAC, 50/60 Hz 1 phase, 15A	110 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 Dewpoint 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	8 ft. (2.4m)
Resolution	0.1°C	Refrigeration	Dual Stage Cascade Refrigeration System

* Designed to run at 75 PSIG.



AirJet Accessories

General Accessories

Model	Description
THJ-TC1	Thermocouple kit

Thermal Caps

Model	Description
SH35T1	Transparent, 3.5" ID x 2" deep
SH45T1	Transparent, 4.5" ID x 2" deep
SH55T1	Transparent, 5.5" ID x 2" deep
TJ-SHP-35	Phenolic 3.5" ID x 2" deep
TJ-SHP-45	Phenolic 4.5" ID x 2" deep
TJ-SHP-55	Phenolic 5.5" ID x 2" deep



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