# FTS Systems ThermoJet<sub>es</sub>

# Precision Temperature Cycling System



#### **Features**

- Control temperature from 80 to 225 °C.
- Flow rate of up to 20 SCFM.
- Enhanced digital temperature control.
- · Utilizes off-the-shelf refrigerants.
- · Highest heat removal capacity in the industry.
- · Compact footprint smallest on market.
- CE compliant.
- Removable touchscreen interface.

# **Controller Specifications**

Туре	Microprocessor PLC-based PID			
Program	Save and load 48 programs of 8 segments each			
Safeties	Low flow, over temp, EMo interlock			
Status Indication	Air input, air temp, air / DUT control, OK, run/idle, purge, defrost			
Available Limits	Max. ramp rate, min. / max. air temperatures			
Ramp Rates	1 °C / min. incremental up to 999 °C			

<sup>\*</sup> Dimensional data is for base unit (i.e., without air delivery assembly).

# **Performance Specifications**

	THJ80ES	
Temperature Range (Standard)	-80 to 225 °C	
Temperature Range (High Temperature Option)	-80 to 350 °C	
Accuracy	1 °C	
Setability	0.1 °C	
Indication/Resolution	0.1 °C	
Stability	± 0.5 °C (at discharge nozzle)	
Max. Transition Rates	125 to -55 °C in <10 s / -55 to 125 °C in < 10 s 200 to -65 °C in <15 s / -80 to 200 °C in <15 s	
Stabilization Rate	125 to -55 °C in <12 s / -55 to 125°C in <4 s	

**Note:** Performance parameters are based on SP Scientific test data from similar units operating at 230 V, 60 Hz at 15 scfm (425 lpm) at an ambient temperature of 23 °C (72 °F) and a relative humidity of 55%.

### **Air Flow Specifications**

#### THJ80ES

Flow (Input)	25 scfm @ (708 lpm)		
Pressure (Input)	80 - 125 psig (5.5 - 8.6 bar)		
Dew Point (Input)	10 °C		
Flow (Output)	5 - 20 scfm @ (142 - 566 lpm)		
Setability	1 scfm (28.3 lpm)		

#### **Dimensional Data\***

#### THJ80ES

Width	21 in (53.3 cm)	
Depth	27 in (68.6 cm)	
Height	38 in (96.5 cm)	
Weight	425 lbs (193 kg)	

## **Electrical Configurations**

Voltage	200 / 208 - 230 V	220 - 230 V	208 - 240 V <sup>†</sup>
Hetrz	50 / 60 Hz	50 Hz	50 / 60 Hz <sup>†</sup>



<sup>&</sup>lt;sup>†</sup> Voltage and Hertz are adjustable.