

ETC 2000



ENGINEERING THERMAL CONTROL

The ETC 2000 features the fastest and most accurate device thermal control technology:

- ▶ -70°C to +150°C setpoint temperature range available
- ▶ Patented Power Balancing™ junction temperature control
- ▶ 100°C per second temperature ramp rate
- ▶ Needs only AC power and air – no chilled water
- ▶ Easy access to test site



Specifications

DEVICE KITS

DEVICE KITS	BGA, LGA, PGA, MCM. (For other package types, consult Delta Design)
DEVICE SIZE	Minimum: 10mm x 10mm Maximum: 70mm x 70mm Thickness: Max 25mm
DEVICE CHANGEOUT	<30 seconds
DEVICE KIT CHANGEOVER	<30 minutes

PLATFORM

TEST SITE	Horizontal, can be configured for right or left side access
TEMPERATURE RANGE	-S and -L Models Passive: -30°C to +150°C Active: -10°C to +125°C -XT Model Passive: -55°C to +125°C -70°C to +150°C (optional) Active: -40°C to +125°C -55°C to +125°C (optional)
TEMPERATURE ACCURACY	±1.0°C with 0.1°C resolution
VARIATION FROM SETPOINT	±2°C of setpoint at start of test
THERMAL CONTROL MODES	Heater temperature feedback Device temperature feedback (RTD or diode) Power Balancing™
THERMAL UNIT	-S Model: 1.0 TU -L and -XT Models: 1.2 TU
TEMPERATURE RAMP RATE	100°C per second
USER INTERFACE	PC/LabVIEW®, keyboard with integrated trackball, color LCD

ESD

monitor
<100V within 6" of device

COMMUNICATIONS INTERFACE

GPIB and RS232 (consult factory for other options)

POWER REQUIREMENTS

208VAC, 60 Hz, 3-phase,
-S and -L Models: 30 Amp
-XT Model: 45 Amp

AIR

80 psi, 2-3 scfm, clean, dry
dewpoint 15°C lower than
coldest chiller setpoint

WEIGHT

-S and -L Models
750 lbs. (340 kgs.)
-XT Model: 1270 lbs. (577 kgs.)

SYSTEM DIMENSIONS

-S and -L Models
25.4"W x 42"D x 63"H
(0.65m x 1.08m x 1.62m)
-XT Model
46.5"W x 40.0"D x 53.1"H
(1.19m x 1.03m x 1.36m)

CHILLER

LOCATION

-S and -L Models: Internal
-XT Model: External

POWER REQUIREMENTS

Provided through ETC2000 platform

TEMPERATURE RANGE

-S and -L Models:
-40°C to +85°C
-XT Model:
-60°C to +50°C
-80°C to +50°C (optional)

COOLING

Air-cooled, HFE

Specifications are subject to change without notice.
For detailed performance specifications, please contact Delta Design.



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