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ETC2000



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	<100V within 6" of device
COMMUNICATIONS INTERFACE	GPIO 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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