

Note: Data Sheet For Reference Only - Actual Chamber May Vary Depending on Model Year, Options, Controllers, and Individual Configuration

**AIR-TO-AIR
 THERMAL SHOCK CHAMBERS ETS SERIES**



These thermal shock chambers incorporate an innovative AI controller for precise test environment control and ease of operation. A large graphic LCD enables even the inexperienced operator to quickly set the test conditions simply by following the directions displayed. The controller also provides on-line help recommending corrective action during alarm conditions.

A wide range of performance is available, with a 22 lb (10 kg) load, of molded plastic ICs for example, the chambers demonstrate superlative temperature recovery characteristics recovering from +150°C/-65°C within 5 minutes using no auxiliary cooling. Multiple safety features guarantee the integrity of both specimen and chamber, and excellent maintainability has been realized by a design stressing ease of access for service.

| Model | Power supply | Temperature range | Test area volume cu.ft. | Interior dimensions W×D×H cm (in) |
|-----------|-------------------|--|-------------------------|-----------------------------------|
| ETS4-1SW | 460VAC 3φ 60Hz | Hot box: Ambient to +210°C (Ambient to +410°F) | 4 | 50×50×40 (20×20×16) |
| ETS4-2SW | | | | |
| ETS4-3SW | | | | |
| ETS13-3SW | | Cold box: -75 to +40°C (-103 to +104°F) | 13 | 66×83×63 (26×33×25) |
| ETS13-5SW | | | | |

**LIQUID-TO-LIQUID
 THERMAL SHOCK CHAMBERS TSB-2 TSB-5**



ESPEC has seen a great increase in demand for high-performance, high-intensity thermal shock chambers in many fields, especially in the electronics industry. Our liquid to liquid chambers are excellent for imposing high thermal stresses on specimens. Operating costs are reduced as a result of lowered fluid consumption realized by the air-tight test chamber and an automatic rotary shutter at bath inlet. Two types of fluid can be used with just the change-over of a valve. The dedicated AI controller can automatically determine appropriate pre-heating and pre-cooling as well as test conditions. These chambers also exhibit exceptionally short temperature change periods.

| Model | Power supply | Temperature range | Test area volume cu.ft. | Test area dimensions W×D×H cm (in) |
|-------|----------------------|--|-------------------------|------------------------------------|
| TSB-2 | 208VAC 3φ 3W 60Hz | High temp bath: +70 to +200°C (+158 to +392°F) | 0.08 | 12×12×15 (4.7×4.7×5.9) |
| TSB-5 | | Low temp bath: -65 to 0°C (+85 to +32°F) | | |

*Optional power supply available.