



AMERICAN
TECHManufacturing

T-2080 TWIN TILT ENVIRONMENTAL HANDLER

HIGH CAPACITY
HEAVY DUTY
DIP HANDLER FOR
DIP TESTING
TO 125° CELCIUS



- DIP devices and contact sets fully contained within a sealed chamber environment.
- Selectable Guard Band inhibits testing when chamber temperature is out of limits.
- Multi-Package Size, 6 to 40 leads, .300" to .600".

- "FAIL-SAFE" Sorting for dependable operation.
- "TWIN-TILT" for operator convenience.
- Heavy-Duty, Long-Life Mechanisms.
- Leads-Up Device Processing.
- 5-Sort Programmable Output.
- Serial or Parallel Processing Mode.

PACE-SETTERS IN MODERN COMPONENT HANDLING

COMBINES OPERATOR CONVENIENCE WITH GENTLE HANDLING

The T-2080 "TWIN-TILT" Environmental Handler is a cost effective solution to most high volume, elevated temperature testing applications. The environmental chamber is capable of storing sufficient devices to permit 125° Celcius operation at a throughput in excess of 6,500 units per hour for 300 mil packages, and will not limit system throughput at 125° Celcius for 600 mil devices with test times as short as 3.0 seconds.

The T-2080 assures high fidelity temperature testing. All devices, the contact sets and the test site are fully enclosed within a sealed environment.

A unique "TWIN-TILT" system permits the slide angle of the measurement chamber and that of the soak chamber to be adjusted independently. This assures a convenient operating position irrespective of the processing angle chosen for optimum device handling.

T-2080 PRELIMINARY SPECIFICATION

TRIGON's "FAIL-SAFE" Sorting System, first introduced on the DIAL-A-SIZE Series, has been extended to the T-2080. This feature, together with selectable serial or parallel processing modes and the lack of EMR during test times, ensures optimum throughput consistent with reliable test results.

The T-2080 is a multi-size test handler capable of processing 6 to 40 lead devices in .300" to .600" sizes. Changing from one size to another is accomplished quickly and easily using digital dials and calibrated scales for the measurement chamber and two quick-change self aligning parts for the soak chamber.

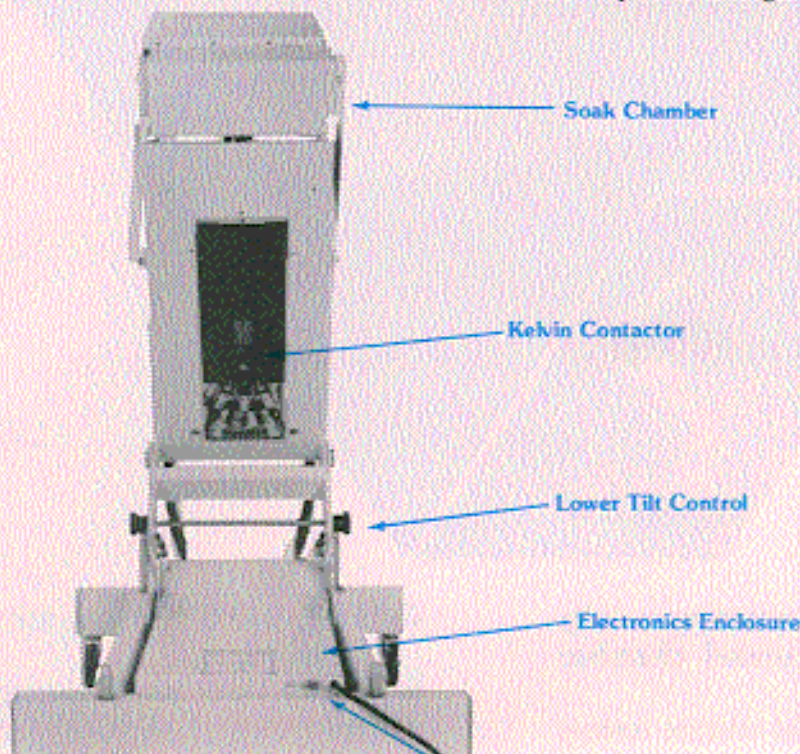
The storage of multiple devices in the large soak chamber and their transfer to the measurement chamber are accomplished without the use of complex high-speed mechanisms. The soak chamber contains a single moving assembly which indexes only when the equivalent of an entire tube of devices has been processed. A unique shuttle design typically transfers multiple devices between the soak and measurement chambers in a single cycle and does not require critical adjustment for package length.

SPECIFICATIONS:

Package Style:	Dual-in-line, 6 to 40 leads (48 optional), 300, 400 or 600 mils wide.
Temperature Range:	Ambient to 125° Celcius (150°C optional).
Set Point Accuracy:	± 1.5° Celcius.
Set Point Resolution:	1° Celcius.
Test Temperature Guard Band:	Selectable limits of ±1.5, 2, 3, 4, 5°C to inhibit test.
Display:	3 digit LED indicator for chamber temperature, switchable for adjusting set point.
Sensor Location:	Contact Test Site.
Overtemp Control:	Safety Cutoff at 165° Celcius.
Soak Time Control:	0, 30, 60, 90, 120, 150, 180 seconds, switch selectable.
Storage Capacity:	165 devices, 300 mil, 14/16 lead devices;
Throughput:	Ambient/Parallel Mode - 6,500 UPH including 100 to 150 msec test time. Serial Mode - 6,500 UPH @ zero test time. Typical for 300 mil, 14 lead devices. Temperature: in excess of 6,500 UPH at 125°C for typical 300 mil devices.
Output:	FAIL-SAFE sorting into 5 positions with full intermix programming and automatic stepover. Tube-In-Place detector, jam sensor and sorter position interlock detector for each output position. Universal tube holders.
Utilities:	105-125 or 210-260 volts 50/60 Hz, Switch Selectable.
Physical Data:	Height: 127-152 cm (50-65 inches) nominal Base Width: 74 cm (29 inches) Base Depth: 91 cm (36 inches) Weight: 113 Kg (250 lbs.) approx.

TESTER INTERFACE

Two cables interconnect the T-2080 to an automatic tester. A control cable which carries all Tester and Handler interface control signals, and a Contactor Cable interconnecting the Tester perform board and the test Contactor. All control signals are optically isolated and may be either negative or positive true, 5 to 15 volts.



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