Custom Product

Large Capacity Thermal Shock Chamber TSA-603EL-W (600 L)

Today, the automotive industry accelerates electronic multi-functions. According to this trend, safety standards such as ISO26262 and IEC61508 require high environmental stress that is generated by thermal shock chambers for higher reliability of vehicle equipments.

A large capacity model capable of loading larger specimens in higher quantities has been added to our lineup of TSA series Thermal Shock Chambers (L type = light specs). Our TSA-603EL-W Large Capacity Thermal Shock Chamber has a test area capacity of 600 liters, nearly twice that of the largest standard thermal shock chamber line up TSA-303EL-W.
This makes it possible to provide thermal shock testing of relatively large products that could not be previously tested due to their size and large components used for automobiles (e.g. in-vehicle Li-ion battery packs, ECUs, PCUs, and in-vehicle inverters).

Enables testing large specimens

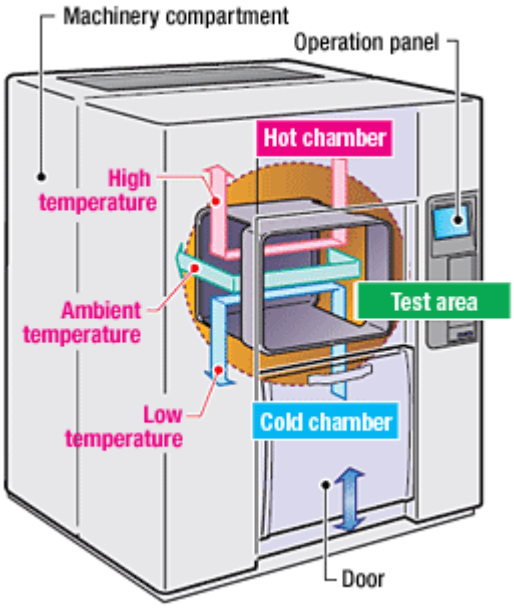
In the automotive, home appliance, and IT equipment industries, modular parts of multiple parts combined in advance are assembled. These modular parts are becoming larger in capacity as integration increases. This model is effective for thermal shock testing of such large specimens.

User-friendly instrumentation

This chamber adopts the same instrumentation as our standard thermal shock chambers, so there is no need to learn new operations. for ESPEC users.

Same structure as standard chambers

The air blow, suction, and flow are the same as on our standard thermal shock testing chamber.

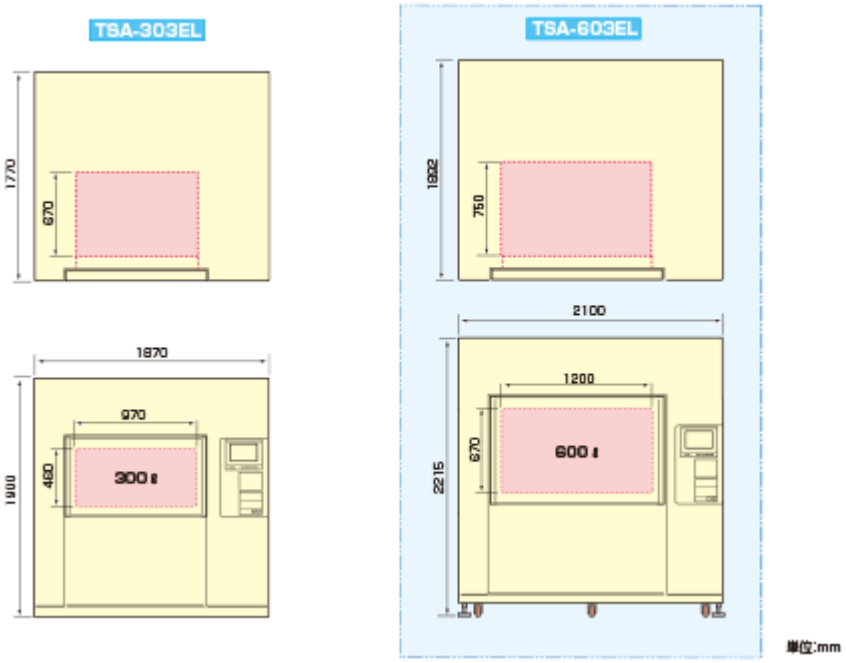


Air flow (TSA series)

Larger test area capacity

The following is a comparison of the test area size between TSA-503 and standard models lineup.

	Test area dimensions (W × H × D mm)	Capacity (ℓ)
TSA-43EL-A	240 × 460 × 370	40
TSA-73EL-A	410 × 460 × 370	70
TSA-103EL-A	650 × 460 × 370	110
TSA-303EL-W	970 × 460 × 670	300
TSA-603EL-W	1200 × 670 × 750	600



Main specifications

Model			TSA-603EL-W
Power supply			200V AC 3φ 3W 50/60Hz
Method			Two-zone and three-zone using damper switching
Performance*1	Test area	High-temp. exposure range	+65°C to +150°C
		Low-temp. exposure range	-50°C to 0°C
		Temperature fluctuation width	±0.5°C
	High temperature chamber	Max pre-heat setting temperature	+200°C
		Temperature heat-up time	Within 30 minutes from ambient temperature to +200°C
	Low temperature chamber	Min pre-cool setting temperature	-70°C
		Temperature pull-down time	Within 90 minutes from ambient temperature to -70°C
Test area load capacity			50 kg (equally distributed load)
Shelf load capacity			20 kg (equally distributed load)
Test area dimensions			W1200mm×H670mm× D750mm
Outside dimensions			W2100mm×H2215mm× D1750mm (excluding protrusions)
Weight			Approx. 1700 kg

*1 Values at an ambient temperature of +23°C

* The model is for operational purposes and may be changed after order. Thank you for your understanding.

* Thermal shock chamber with much larger capacity is also available.

Recommended products for customers viewing this product

Conductor Resistance Evaluation System (AMR)

Air to Air Thermal Shock Chamber with Humidity

Air to Air Thermal Shock Chamber

Highly Accelerated Air to Air Thermal Shock Chamber (HAATS)

Large Capacity Liquid to Liquid Thermal Shock Chamber

High-rate Thermal Cycle Chamber

Thermal Shock Chamber 300°C Specification

Large Capacity Thermal Shock Chamber