SATRA HTE 703 and HTE 903

SATRA Ozone Test Chambers:- Global reputation established through advanced specifications, quality, safety & service.

Ozone Test Chambers — Further Information

SATRA ozone testing technology has evolved as a result of more than 30 years of experience. State-of-the-art technology and construction techniques have been combined with expertise to produce a reliable, accurate, fully automated, labour and cost saving unit which is truly environmentally safe.

An integral closed loop air-ozone system ensures that hazardous ozone gas is contained internally — eliminating the need to provide additional external venting and filtering of the spent gases.

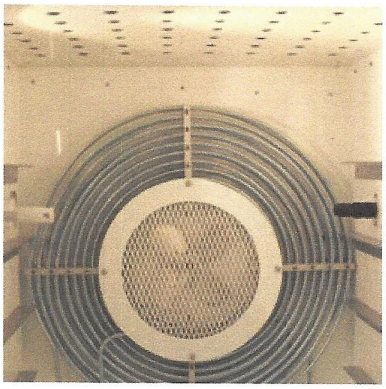
The heavy duty aluminum exposure chamber has an anti-corrosive interior and is complete with racking system to accept sample-mounting apparatus. A range of static and dynamic sample holders to international standards is available. Access is via a double-glazed, airtight and safety interlocked door. Entry to the test area is prevented until the interior environment reverts to safe ambient levels. Exterior lighting is excluded from the test area via a roller shade, while the interior can be lit by the integral test inspection lamp.

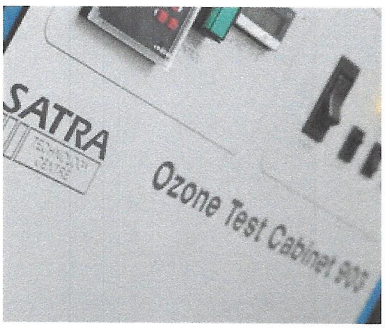
Controls and digital displays are logically laid out on a control panel and reflect the simplicity of operation required to set up a test routine. The only requirement is to set the ozone concetration, temperature, relative humidity (903 only), test start/finish/purge time sequence.

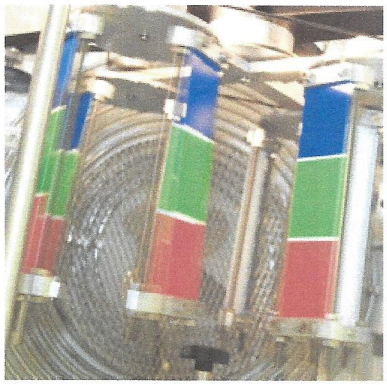
The ozone concentration is variable from 1 to 500pphm (1 to 2000pphm option) and is automatically controlled and monitored. The set concentration and monitored concentration are digitally displayed, with the monitored concentration simultaneously recorded.

Ozone

Digital display proportional controller, switching automatic servo system to control ozone through three ranges: ozone concentration (measured at pphm at NPT) 0-100, 0-250, 0-500. Accuracy ± 5 per cent F.S.D. or better, typically ±2pphmat 50pphm, measured under stable absorption conditions. Typical recovery times after sample insertion: within 10 per cent of set value is 15 minutes.







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Navigation

Test Equipment Home

- Test Equipment Items
- Test Consumables
- Type of Test

Featured Machines

- Tensile Testing Machine
- Slip Test
- Endofoot
- Ozone Chambers
- Pedatron

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Generation via UV ozone lamps with maximum ozone generation output approx. 50,000pphm x litres/min, for example 200pphm at 250 litres/min. High ozone option 2000pphm (in conjunction with UV type analyser). Ozonised air flow 50–500 litres/min infinitely variable, allowing a maximum of 3 air changes per minute and an effective velocity of 3.3 to 33.3mm/sec. Internal circulation fan can be switched on to give 60cm/sec (2 feet/sec) according to ASTM D 1149. Ozone concentration measurement accuracy ± 2pphm. Control accuracy 4 per cent of set point (± 2pphm at 50pphm).

Internal circulating fan to ASTM D 1149.

Test timer: Digital programmable seven day, test start–test stop–finish and purge timer.

HTE 703

Temperature Ranges options for Model 703: 0°C to 70°C.* 10°C to 70°C. Ambient (+ 5)°C to 0°C.

*The testing of rubber at low temperatures 0°C is well documented and conclusions from experiments, undertaken using low temperature SATRA test chambers may have an important bearing on the future development of ozone test methods.

Temperature control accuracy: ± 1°C at 40°C and ± 3°C at 70°C. Typical temperature and ozone recovery period following sample insertion < 10 per cent of set point after 15 minutes and 4 per cent after 30 minutes (cold start times will vary).

Electrical supply 220–240/1/50/60 rated at 2kVA system unaffected by variations of 10 per cent from normal.

HTE 903

Temperature Range for 903 model: 23°C to 70°C. All ranges are automatically controlled by a solid state digital proportional controller, temperature digitally displayed and simultaneously recorded on the integral chart recorder.

Relative Humidity control for model 903: Range 50 per cent to 80 per cent RH over exposure chamber temperature range of 23°C to 40°C.

Control ± 5 per cent RH at constant temperature. Digital proportional controller working in conjunction with a three–channel chart recorder.

Water supply: Maximum temperature 15°C. Minimum pressure 2 bars. Maximum flow required 80 litres/hour. In areas of hard water a de–calcinator should be used and where a maximum water temperature of 15°C cannot be maintained a recirculation chiller system should be employed.

Electrical supply 220–240/1/50/60 rated at 3kVA system unaffected by variations of 10 per cent from normal.