Ozone Test Chamber
Model: UA-2074

a measurable difference...

IDM instruments

The Ozone Test Chamber consists of one main unit and a sub-unit.

The main unit is inclusive of the operational panel, ozone generation module, ozone detection module, air flow module, cooling compressor, testing chamber, activated carbon cylinder, electro-mechanical system.

The sub-unit is equipped with an IBM compatible PC, monitor and printer.

Machine Features:

- Fully computerised: Ozone concentration, temperature, chamber humidity and its stability are controlled and dynamic monitored via computer
- Ozone concentration recorded automatically which ozone being detected automatically 0.1 sec one time and being displayed on the computer screen per 2 sec
- A modulus machine which simplifies equipment maintenance
- Testing Chamber Capacity: 150L
- Testing Chamber Dimensions: (L)60x(D)50x(W)50cm
- Temperature Control: SU316 radiator type heater & PT1000 platinum sensor with PID control
- Air-ozone Velocity over specimens 0.3-1m/s
- Specimen Rack: with 9 specimen grips
  Tension distance: 0-90mm, adjustable
  Tension frequency: 0-30times per minute, adjustable
  Rotation revolution: 50Hz – 8 revolutions per minute
  60Hz – 10 revolutions per minute

Ozone Generation System:

- Ozone Generation: High voltage anticorrosive ceramic plate
- 25-250pphm (extensible as option)
- Ozone Concentration Accuracy: 2% of full scale
- Ozone Destruction: Activated carbon
- Temperature Range: -20°C to +100°C (±1°C)
- Temperature Uniformity: @40°C is ±3°C

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Ozone Detective System:

- UV Detective Range: 25 – 250pphm (extensible as option)
- Module Detective System: Under PC and PID control
- Measuring Accuracy: 2% of full scale
- Resolution: 1pphm
- Auto-self-checking: During for first 30 seconds of starting a run, the full systems of the machine will auto-check. The machine will continue heating up if results are normal.
- Detected data including ozone concentration, testing temperature and humidity are renewed every 2 seconds on the display.
- The specially designed calibrator can be automatically carry out a check, comparison, modification and adjustment of the related parameters.
- The Ozone Calibrator is a light and portable instrument.
- Calibration system traceable to the ISO 17025(TAF) standard.

Standards:

- ASTM D 1171
- ASTM D1149
- DIN/EN 27326
- DIN 53509
- ISO 1431
- ISO 10960
- JIS K-6259

Options:

- Remarks: Concentration: 1ppm = 100pphm = 1000ppb
- Types: 0 – 1000pphm 0 – 30000pphm
- Accuracy: 10ppm(<±0.25ppm) 300ppm(<±7.5ppm)
- Piston type air compressoe (including dehydrator, degrease and dust filter devices)
- Ozone test chamber equipped with humidity setting – with automatic water supply set and PID humidity control functions
- Supply with tailor-made model of an air in-out flow chamber.
- With Camera to display sample cracks: Model No. UA-2074C

Connections:

- **Electrical:** 220/240 VAC @ 50/60 HZ
- **Air Compressor:** with oil filter and humidity filter to be supplied by the user.

Dimensions:

Main Unit:
- L: 180cm
- W: 120cm
- D: 105cm

Sub Unit:
- L: 74cm
- W: 70cm
- D: 100cm

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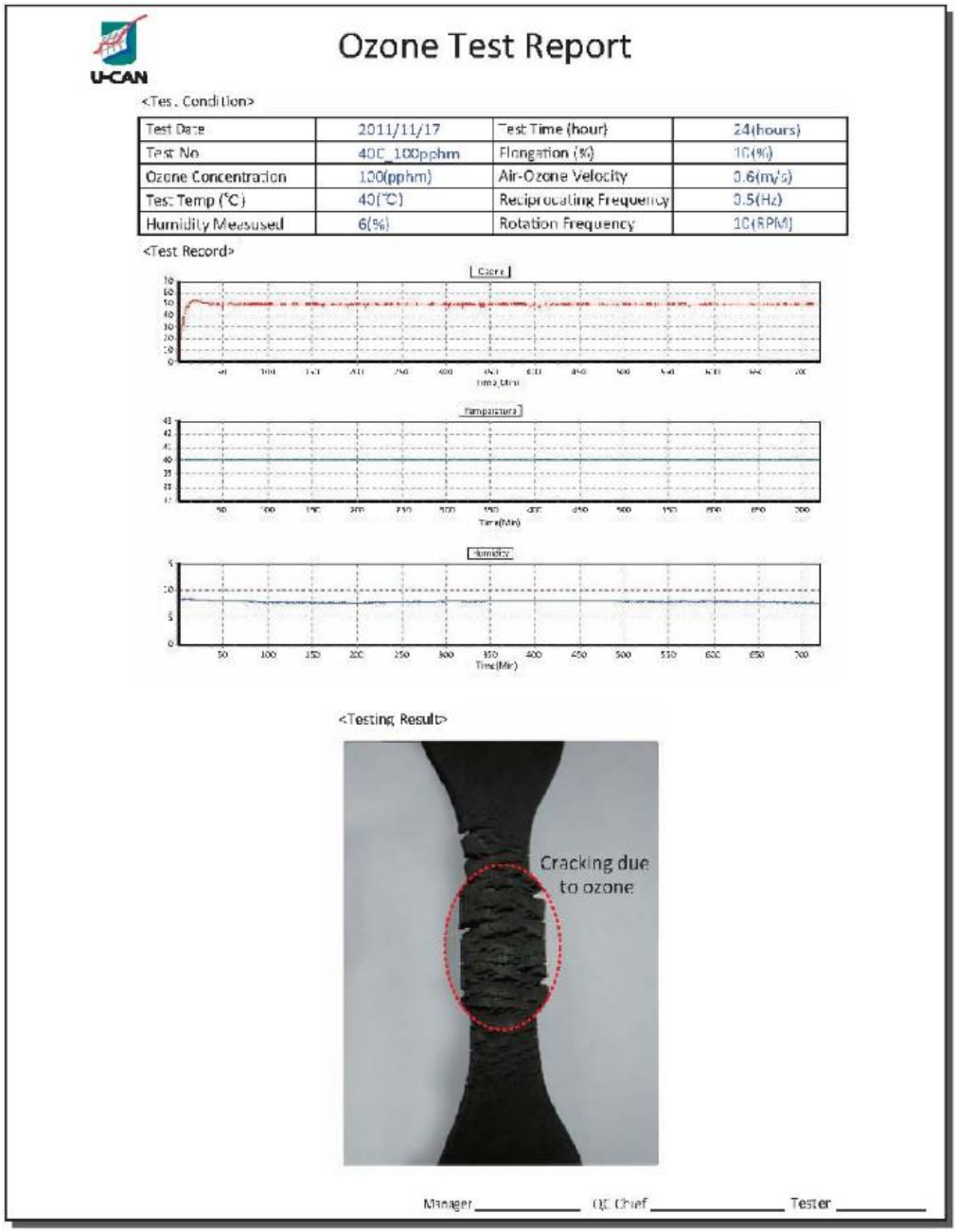
SAMPLE TEST REPORT



U-CAN

Ozone Test Report

<Tes. Condition>

Test Date	2011/11/17	Test Time (hour)	24(hours)
Test No	40C_100pphm	Elongation (%)	10(%)
Ozone Concentration	100(pphm)	Air-Ozone Velocity	0.6(m/s)
Test Temp (℃)	40(℃)	Reciprocating Frequency	0.5(Hz)
Humidity Measured	6(%)	Rotation Frequency	10(RPM)

<Test Record>

<Testing Result>

Manager _____ QC Chief _____ Tester _____

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