



OZONE CHECK - UV

SOFTWARE CONTROLLED OZONE CABINET FOR THE EVALUATION OF OZONE RESISTANCE OF RUBBER SAMPLES

STANDARDS: ASTM D1056; ASTM D1149; ASTM D1171; ASTM D4575; DIN 53_509-1; EN 681-1; FIAT 50417; ISO 3011; ISO 7326; ISO 7840; ISO 12046; ISO 1431-1; ISO 1431-3; ISO 6916-1; ISO 6916-2; JIS K_6259; SAE J1401;

NOTE: COMPLIANCE WITH SOME STANDARDS MAY REQUIRE OPTIONAL ACCESSORIES OR SETUPS.



Complete ozone cabinet for the measurement of the resistance to cracking under static or dynamic tensile strain of rubber samples or technical articles. The instrument permits to set the test conditions in order to comply with international standard methods.

Key features

- Automatic regulation of Ozone Concentration, Temperature and Air Flow
- Performance of Static or Dynamic tests

- UV-absorption Ozone detector
- Stainless steel cylindrical test chamber for homogeneous ozone distribution
- Generation and shooting down of the Ozone in closed circuit (no exhaust evacuation needed)
- CE labelling

Software

Complete control using Gibitre-OzoneCheck software which permits to set testing conditions, store results, test curves and sample images to SQL

database, manage independent groups of samples with automatic test stop and test suspensions control, recover the test after a power failure.

Accessories

- Supports for static and dynamic tests of standard samples, technical parts and rubber hoses.
- Optional sensor for measuring relative humidity during the test

Temperature control (standard instrument): From Room Temperature +5°C to 70°C. Accuracy: 0.1°C.

Control of Ozone Concentration: Automatic between 10 and 500 PPHM (50.5 to 505 mPa). UV Absorption Analyzer according to ISO 1431-3 and ASTM D4575 with ± 3% accuracy

Test chamber: Cylindrical Stainless Steel test chamber with internal illumination and inspection window. Ø 550 mm; H 550 mm. Volume 155 Litres

Air flow: Adjustable from 1 to 3 changes/min (air change speed between 10 and

30 mm/sec); Internal fan according to ISO 1431.

Static Sample Holders: • Static strain and planetary displacement according to ISO 1431-1 standard (32 to 64 samples); • Tests on rubber hoses according to ISO 7326

Sample holder for dynamic test: Frequency: 3 to 30 cycles/min (0.05 to 0.5 Hz). Holder for 10 samples

Personal Computer (optional): Minimum Setup: Windows 10 or 11, Intel Core i5, 5GB RAM

