



EQUIPMENT DETAILS-HD-E801 OZONE AGING TEST CHAMBER





GENERAL SPECIFICATIONS

Packaging Dimensions: (WxDxH) 1200*1200*1950mm

Power supply source: single-phase, 220V±10%, 50Hz (can be appointed)

Gross Weight: 280kg

HS Code: 8479899990

STANDARD FEATURES

Model	HD-E801-100	HD-E801-150
Internal dimension (WxDxH)	400*500*500mm	500*600*500mm
External dimension (WxDxH)	900*970*1600mm	1000*1000*1750mm
Temperature range	RT+10~ 80°C (suggest to use 40°C ± 2°C)	
Temperature Fluctuation	±0.5°C	
Humidity range	30%~85%RH	
Humidity fluctuation	±3%RH	
Ozone concentration	50~1000 pphm, adjustable	
Ozone concentration deviation	±10%	
Sample holder	SUS#304 stainless steel	
Temperature controller	Programmable touch screen controller	
Ozone concentration analysis	Concentration analysis meter	
Ozone generator	High pressure silence discharge type	
Protection system	Leakage, short circuit, over temperature, over heat	
Test criteria	ASTM D1149, ISO 1431	

CHAMBER STRUCTURE AND FEATURES

- 1, Internal material adopts high quality mirror stainless steel for ozone resistance.
- 2, Insulation material: high-density glass fiber
- 3, Use long axial fan motor and high and low temperature resistant aluminum alloy wing type wind turbines to force vertical air circulation.
- 4, Chamber door adopts double layer high and low temperature resistant silicone seal ensure the airtight test area.
- 5, Chamber bottom has high quality caster for convenient move.
- 6, Observation window uses multilayer hollow tempered glass.
- 7, Exhaust system: exhaust the high concentration ozone from the test chamber to avoid to poison.
- 8, Optional: Built-in 360 degree rotation sample holder, including 3 sets static tensile fixture and 3 sets dynamic tensile fixture.



CONTROL SYSTEM

- 1, With imported micro-computer LCD controller to control the temperature.
- 2, PID control
- 3, With auto calculation function to reduce the setting inconvenience.
- 4, Heater: fin type radiator pipe nickel-chromium alloy u-shaped heater, auto calculate with high accuracy PID + SSR control
- 5, Temperature measurement: SUS#304, PT 100

STANDARD CONFIGURATION

- 1, Power line x 1pc
- 2, Sample holder x 1set
- 3, Fuse x 1set
- 4, Operation manual x 1set

ASTM D1149

5.2.1.2 The internal volume of the chamber shall be no less than 0.11 m (4 ft³). The internal chamber volume may be greater, provided the prescribed levels of ozone concentration and partial pressure are maintained (refer to 5.2.1.3(1) and Note 1).

5.2.1.3 A means for generating, measuring, and controlling ozone concentrations levels and partial pressure shall be provided. The ozone generating source shall be isolated from the internal chamber and within the integral external structure.

(1) The generation and introduction of ozone shall be by a means whereby ozone concentration levels in the internal test chamber of between 25 and 200 pphm (parts per hundred million) ± 10 % at 100 kPa (atmospheric pressure at mean sea level, MSL) and the equivalent pressures of between 25 and 200 mPa ± 10 % are maintained throughout the duration of the test (refer to Notes 1 and 2). The preferred method of ozone generation being either quartz UV, corona discharge (dielectric), or a combination of both.

desired, throughout the duration of a test, shall be provided.

(1) The standard test temperature shall be 40 ± 1°C (104 ± 1.8 °F). Other temperatures may be established locally, agreed upon between customer and supplier, or between laboratories. It is recommended that the standard temperatures given in Practice D1349 be followed.