

Rust Protection by Metal Preservatives in the Humidity Cabinet

test method

Tests the ability of metal preservatives to prevent steel panels from rusting under conditions of high humidity. Polished steel panels are immersed in the sample oil and then suspended in the humidity cabinet for a specified test period.

digital humidity cabinet

- Conforms to ASTM D1748 and FTM 791-5310 specifications

Produces a moisture saturated atmosphere with continuous condensation at a constant 120°F (48.9°C) for 33 steel test specimens. Test panels are suspended on a 1/3rpm rotating stage. Air flow and water level control systems maintain required conditions inside the cabinet per Mil. Spec. and ASTM specifications. Air temperature is maintained at 120 ±2°F (48.9 ±1.1°C) by a digital electronic controller. A continuous heater circuit assists the control heater in bringing the cabinet up to temperature prior to testing. Overtemperature protection is provided by an adjustable digital thermostat which cuts off power to the cabinet in case of overheating.

Cabinet interior is stainless steel lined and all interior components are of stainless steel or chrome plated steel construction. Hinged cover consists of two layers of desized cotton cloth mounted on a metal frame. Oil and condensate dripping from the specimens are collected in a drip pan and piped to an external drain.

ordering information

catalog no.	description	qty
K35200D	Digital Humidity Cabinet, 115V 60Hz	1
K35295D	Digital Humidity Cabinet, 220-240V 50Hz	
K35296D	Digital Humidity Cabinet, 220-240V 60Hz	
K35200 WLRS-KIT	Water Level Regulating System Kit	

accessories

K35210	Steel Test Panels Soft temper low carbon cold rolled steel, surface ground on both faces to a 10-20 micro-inch finish. 2x4x1/8"(51x102x3.2mm)	33
380-240-002	Aluminum Oxide Cloth, 240-grit For test panel preparation. Pack of 50	1
250-000-09F	ASTM 9F Thermometer Range: 20 to 230°F	1



K35200D Digital Humidity Cabinet

specifications

Conforms to the specifications of:
ASTM D1748; FTM 791-5310
Capacity: 33 rust test specimens
Water Level Control: 8 in. (203mm)
Temperature Control Stability: ±2°F (± 1.1°C) (air temperature)
Heater Range: 0-1500W
Air Metering: 0.878±0.02832m³/h at standard temperature and pressure (31±1 ft³/h)
Air Distribution: 20-diffuser manifold
Rotating Stage: 1/3 rpm

Electrical Requirements

115V 60Hz, Single Phase, 13.0A
220-240V 50Hz or 60Hz, Single Phase, 6.8A

Included Accessories

Monel Test Specimen Hooks (33 sets)

Dimensions l x w x h, in.(cm)

32x28x41½ (81x71x105)
Net Weight: 206 lbs (93.4kg)

Shipping Information

Shipping Weight: 279 lbs (126.6kg)
Dimensions: 41 Cu. ft.