



Date

Corrosion Test Chamber Design Data Sheet

Singleton Corrosion Test Chamber – SCCH – (Salt Fog, Cass, Corrodkote, Humidity)

Chamber Information Form

Contact Name

Contact Phone

Company

Contact Email

Address

City

State/Province

Postal Code

What Test(s) are to be Performed? (check all that apply)

☐ ASTM B117, and other standard salt fog

no options required

☐ ASTM B368 (CASS) acetic acid

requires part #504000 - CASS Test

Solution Valve

☐ D2247 [Humidity Only], no fog tower

requires Humidity Test pkg

☐ B380 [Corrodkote]

requires Humidity Test pkg

☐ G85 (A1) Acetic acid-salt spray, continuous

requires CASS Test, part #504000

Solution Valve

☐ G85 (A2) Cyclic acidified salt spray

requires Multi-Test Control pkg, part #504855

☐ G85 (A3) SWAAT

requires Multi-Test Control pkg, part #504855

☐ G85 (A4) SO₂ salt spray test

requires Multi-Test Control pkg, part #504855 & gas accessory pkg, part #504870 or 504871

Requires a CCT Chamber NOT SCCH

☐ G85 (A5) Dilute electrolyte cyclic fog dry test

requires a CCT chamber and dependant on chamber size

☐ Other Tests

Paul N. Gardner Company
9104 Guilford Road, Suite H
Columbia, MD 21046
USA

Which size pieces, parts need to be tested?

Quantity of pieces to be tested at one time?

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SCCH 20, SCCH21, SCCH22 Chambers have one 4" fog tower – SCCH23 and larger have two 4" fog towers. The rest is open space for testing pieces and parts. What size chamber capacity is required?

- ☐ SCCH20 = 9.3 cubic feet ☐ SCCH21 = 18 cubic feet ☐ SCCH22 = 30 cubic feet
☐ SCCH23 = 73 cubic feet ☐ SCCH23SL = 63 cubic feet ☐ SCCH24 = 128 cubic feet
☐ SCCH24SL = 96 cubic feet

Can the chamber be exhausted to outdoors? (similar to a dryer vent, not forced) ☐ Yes ☐ No

Is a floor drain available near the chamber? ☐ Yes ☐ No

If no drain or exhaust is feasible, see recirculating exhaust condenser option.

Options Required or Requested

Wet Bottom Drain Assembly – Keeps a consistent level of water in bottom of chamber

Recirculating Exhaust Condenser System – No Outside Vent or Floor Drain required as it collects chamber exhaust into a separate 24 gallon reservoir.
Mounted on a Level Matic stand

Temperature Recorder, Two Pen – Records wet/dry bulb temperature

Temperature Recorder, Single Pen – Records exposure zone temperature

Graphical User Interface Software & Communication Pkg – Connects chamber to a PC

Others available

Electrical Requirements – Varies by size/model of chamber and country availability

Water Requirements – Tap/city water and DI or RO water

Tap water is required to fill the water jacket (this is done upon receipt of chamber and then once every two years.

Reagent Grade IV, deionized, RO water required for most test specifications

Compressed Air Required

 " NPT to Air Controls 40-120 PSI at 4 cubic feet/minute (min.)
Free from oil and dirt Single point connection to chamber
 air controls

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