Redefining Electrochemical Measurement

VistaShield™ Faraday Cage

The VistaShield™ Faraday Cage provides effective shielding from environmental electronic noise allowing for high quality electrochemical measurements even at very low currents. VistaShield's powder-coated type 304 Stainless Steel construction is designed to stand up to a wide variety of laboratory environments. A conductive glass window allows experimenters to visually observe the cell during experimentation without breaking the shielding.

The VistaShield opens wide for easy access to your cell. There's a mechanic al stop to hold the door fixed at a convenient angle.

It's easy to see why the VistaShield is different. You can see your cell without opening the VistaShield and letting all that noise in!

Access is provided by two 2.5 cm (1") side holes with swing covers and four 1.25 cm (0.5") holes on the back. Inside the Vistashield is a ring stand bar, ground lug, and anchor points on the back wall to aid with experimental setup and cell stability with the various connections necessary for many electrochemical experiments.

Stir-Purge

The VistaShield Stir-Purge is available together with the Faraday cage or separately so that it can be added to a VistaShield Faraday Cage already in the lab. It may also be used on its own for users who need the function.

It has the same stainless steel construction as the Faraday cage. There are two functions of the device: magnetic stirring and gas purging/blanketing. The stirrer speed and the gas flow rate are controlled by knobs on the front panel. The stirrer switches between on, off and remote, while the gas flow switches between purge, blanket and remote.

The Stir-Purge back (image) contains three gas nozzles (one line in 2 out), a 15 pin D connector which is used with Gamry potentiostats' Misc I/O for remote control, a USB for computer interfacing and switched DC power in.

Typical setup for electrochemistry would involve cell cables entering via one or both side holes. Purge/blanket gas would be fed in through one or two back holes. Feed/return lines for temperature controlled [water] would also go through the back holes.

The VistaShield with the Stir-Purge Option

The VistaShield with the Reference 3000 Potentiostat

Specifications

Dimensions

Size: 34.3 x 31.75 x 44.5 (50) cm (width x depth x height (with Stir-Purge))

Weight: 9,5 kg (with Stir-Purge 12 kg)

Largest non-covered opening: 1.25 cm, 0.5”

Access

2 x 32 mm diameter (1.25”) covered openings on side (close to 12 mm/0.5“ dia)

4 x 12 mm diameter (0.5”) openings on rear

Ring Stand Bar

Length: 30.5 cm (12”)
Material: Aluminum

Window

Material: Glass (5.6 ± 0.5 mm thick)

Coating one side only, transparent/conductive (20-40 Ω)

Chemical Compatibility

Non-Wetted Materials: stainless steel, aluminum, glass, powder coating

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