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Subject: HoverMatt Static Electricity Generation

Based on user feedback, we were asked to evaluate if a HoverMatt system can generate enough static electricity to cause a shock to an operator of the unit.

Under controlled conditions, using an electrostatic field meter, we measured the electrostatic field at various locations on the power unit, hose, and mattress assembly.

We tested two HoverMatt models (800 watt and 1100 watt) under controlled humidity conditions at both 35% and 15% relative humidity. We also looked at the effects of cleaning the unit and hose with Isopropyl alcohol and the addition of dust to the air stream.

For a person to feel a shock, a field in excess of 10,000 volts would need to be generated. In no case did we measure anything even approaching that number. And in no case did touching any part of the system cause the sensation of a shock.

Based on this testing we believe the unit, as designed and on its own, used in an environment with humidity levels above 15%, **would not** generate a shock to a user. We would recommend a review of the products used by your client in conjunction with the HoverMatt to make sure they are not the cause of any complaints.

Best Regards,

A handwritten signature in black ink, appearing to read "Ed Gilchrest".

Ed Gilchrest

President
Gyre9 LLC