

HDH-030 Horizontal ESD Ionizer with Heater

Instructions for use

Release Date: 3/16/2023



What's in the box: The HDH-030 horizontal ESD ionizing air blower with warming feature provides a wide horizontal flow of balanced ionized air that eliminates static from insulative items such as clothing, tools and fixtures. **The way it works:** The unit is typically placed on a work bench. When turned on, high voltage emitter pins inside the unit generate a large volume of balanced positive and negative ions. A vertical fan pushes ionized air across an electrostatically charged item and overwhelms the static charge on the insulator – rendering it static free.

1. Receiving: Inspect the inbound shipment and insure that the cardboard box has not been damaged in ANY WAY. If the shipment has been damaged, take photos and report the damage to the driver or freight carrier IMMEDIATELY. Mark the damage on the bill of lading and contact United SCP's freight department immediately at 719 676 3928 extension 7001.

2. Safety: ALWAYS observe the following safety precautions when using this product.

- INSURE that the ground source is fully functional by testing the AC outlet with a ground fault tester prior to the initial use of this device.
- NOTE: This unit is preconfigured to run ONLY on a 120 VAC (50/60 Hz.) power source. The unit is equipped with a three prong (standard US style) plug. DO NOT modify the power plug. Limit the use of extension cords. If needed, use ONLY a heavy duty 15 gauge "appliance style" cord no longer than 2 meters.
- DO NOT insert objects such as screw drivers etc. into the air flow grill of air inputs.
- NEVER use this type of ionizer in flammable or explosive environments.
- DO NOT or introduce water or ANY liquids into the air flow or enclosure of this device. It is not meant for use in wet environments.
- NOTE: Opening the enclosure will void the warranty.
- This item is designed for use in an indoor environment with an ambient temperature of 50° to 100° Fahrenheit.

3. Location & Installation: Place the unit on a benchtop or work surface in an area with NO noticeable drafts from furnaces, heaters, air conditioners, fans or windows.

Position the ionizer in an area that will conveniently allow the air flow from the unit to wash over the static

laden items of concern and as much of the work bench as possible. The constant flow of ionized air will prevent any items that can "feel" the flow of the ionized air from accumulating or maintaining an electrostatic charge.

NOTE: The closer the items of most concern are to the running ionizer the FASTER the static charge will dissipate from the items.

4. Operation: Activate the ionizer by clicking the "power" switch. The "Balanced When Lit" orange colored indicator will illuminate. Adjust the air flow speed using the "Fan Speed Control" knob located in the front center of the ionizer.

If warm air is desired for operator comfort, click the "Warm Switch" to the ON position. Its indicator will light showing the circuit is functioning properly.

NOTE: The HIGHER the flow of ionized air is across the items of concern the FASTER the static charge will dissipate from the items.

5. Maintenance: This ionizer is VERY low maintenance. It contains a precision self-balancing circuit that continually balances the emitter pins.

As needed; with the unit de-energized clean the internal emitter points by sliding the tab located in the center of the front air grill from side to side several times slowly. Park the cleaning feature to full left or full right. This is typically done after every 48 hours of operation.

Keep the air inlet and outlet grills free of dust and debris using a shop vacuum or a soft brush and keep the outside of the unit clean using a microfiber towel and ElectraMat or similar.

As desired or recommended by the ESD program Manager; test the ionic output using a charge plate monitor or similar. See ANSI/ESD S20.20-2021 for details.

Revision History Initial release: 3.16.23 Approved for release: SRC
