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YUCHENGTECH ZY-140

YUCHENGTECH Ionizing Air Gun and High Voltage Generator (Model ZY-140) Instruction Manual

Model: ZY-140

1. Introduction

This manual provides detailed instructions for the safe and effective operation, setup, and maintenance of your YUCHENGTECH Ionizing Air Gun and High Voltage Generator. This system is designed to neutralize static electricity and remove dust in various industrial applications. Please read this manual thoroughly before using the product.

2. Safety Information

WARNING: HIGH VOLTAGE. RISK OF ELECTRIC SHOCK.

- Repairs and servicing must be performed only by qualified service personnel. Attempting repairs without proper qualification can result in severe injury or death.
- Ensure the high voltage generator is properly grounded using the dedicated grounding protection terminal.
- Do not operate the device with damaged cords or if the unit appears to be malfunctioning.
- Keep the device away from water or damp environments.
- The high voltage generator includes a built-in fuse for intelligent power-off protection. Do not bypass or modify this safety feature.
- Always disconnect power before performing any maintenance or inspection.

3. Package Contents

Verify that all items are present and undamaged upon unpacking:

- 1 × Ionizing Air Gun
- 1 × High-Voltage Generator (110V)
- 1 × Air Hose

4. Product Overview

The YUCHENGTECH Ionizing Air Gun system consists of an air gun and a high-voltage generator, designed for efficient static elimination and dust removal.



Figure 4.1: Ionizing Air Gun Components

This image highlights key features of the ionizing air gun, including the ergonomic metal handle, the pneumatic trigger switch for air flow control, the double ion needle design for efficient static neutralization, the 8mm air inlet for compressor connection, and the power output interface connecting to the high-voltage generator.



Figure 4.2: High Voltage Generator (Front View)

The high voltage generator features two output terminals, allowing for the connection of up to two ionizing air guns simultaneously. The robust casing ensures durability.



Figure 4.3: High Voltage Generator (Rear View)
This view shows the power input socket, the main power switch, and a critical high voltage warning label, emphasizing the need for qualified personnel for servicing.

Key Features:

- **Upgrade Double Ion Needles:** Built-in two stainless steel ion needles for efficient ion release and static elimination, ensuring long-term use without wear.
- **With Hook Design:** Features a convenient hook for hanging the ionizing air gun when not in use.
- **Multiple Security Guarantees:** The high voltage generator includes a grounding protection terminal and a built-in fuse for enhanced safety.
- **Comfortable and Convenient:** Ergonomic design with a light handle for comfortable grip, allowing free adjustment of blowing direction. The gun body includes a flow switch for ease of use.
- **Air Flow Adjustable:** Air flow can be adjusted by rotating the air adjustment knob on the gun.

5. Setup

Follow these steps to set up your Ionizing Air Gun system:

1. **Connect Air Compressor:** The ionizing air gun requires an external air compressor. Connect your air compressor to the 8mm air inlet on the air gun. Recommended operating air pressure is 0.2Mpa-0.8Mpa (approximately 4-8kg).
2. **Connect Air Hose:** Attach the provided air hose securely between the air gun and the air compressor.
3. **Connect High-Voltage Generator:** Connect the power output interface of the ionizing air gun to one of the output terminals on the high-voltage generator. The generator has dual output terminals, allowing for connection of a second air gun if desired (sold separately).
4. **Grounding:** Ensure the high-voltage generator is properly grounded using its grounding protection terminal. This is a critical safety step.
5. **Power Connection:** Plug the high-voltage generator into a standard 110V AC power outlet.

6. Operating Instructions

Once the system is set up, follow these steps for operation:

1. **Power On:** Flip the main power switch on the high-voltage generator to the 'ON' position.
2. **Activate Air Compressor:** Turn on your external air compressor to supply air to the gun.
3. **Adjust Air Flow:** Rotate the air adjustment knob on the air gun to set the desired air flow rate.
4. **Operate Air Gun:** Hold the air gun by its ergonomic handle. Press the pneumatic trigger switch to release ionized air.
5. **Target Static/Dust:** Direct the ionized air stream towards the object or surface requiring static neutralization or dust removal. The ionized air will effectively neutralize static charges and blow away dust particles.
6. **Power Off:** After use, release the trigger, turn off the air compressor, and then switch off the high-voltage generator.

7. Maintenance

Regular maintenance ensures optimal performance and longevity of your device.

- **Ion Needle Inspection:** Periodically inspect the stainless steel ion needles for any buildup or damage. Clean gently with a soft, dry cloth if necessary. Do not use abrasive materials or liquids.
- **General Cleaning:** Keep the exterior of both the air gun and the high-voltage generator clean and free of dust. Use a dry cloth for cleaning.
- **Air Inlet Check:** Ensure the 8mm air inlet is clear of obstructions.
- **Cable Inspection:** Regularly check all power and connection cables for signs of wear, cuts, or damage. Replace any damaged cables immediately.
- **Professional Servicing:** For any internal repairs or complex issues, refer to qualified service personnel due to the high voltage components.

8. Troubleshooting

If you encounter issues, refer to the following common problems and solutions:

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
No ionized air output	Power not connected or switched on; Air compressor off; Air hose disconnected; Faulty trigger switch.	Check power connection and switch; Ensure air compressor is running; Reconnect air hose; Contact support if trigger is faulty.
Weak static elimination	Low air pressure; Dirty ion needles; Generator malfunction.	Increase air pressure (0.2-0.8Mpa recommended); Clean ion needles; Contact qualified service personnel.
No air flow	Air compressor off; Air hose kinked or disconnected; Air adjustment knob closed.	Turn on air compressor; Check and straighten air hose; Open air adjustment knob.
Generator not powering on	Power cable loose; Fuse blown; Internal fault.	Check power cable connection; Inspect and replace fuse if necessary (by qualified personnel); Contact qualified service personnel.

9. Specifications

Ionizing Air Gun Parameters:

- **Input Voltage:** 4.6KV (from generator)
- **Operating Air Pressure:** 0.2Mpa - 0.8Mpa (recommended: 4-8kg)
- **Air Volume:** 3.5CFM@0.7bar, 5.3CFM@3.5bar
- **Air Velocity:** 10m/s
- **Control Method:** Touch (Pneumatic Trigger)
- **Filter Type:** Electrostatic

High-Voltage Generator Parameters:

- **Input Voltage:** 110V AC
- **Output Voltage:** 4.6KV
- **Current Consumption:** ≤2mA
- **Ion Balance:** 0±10V
- **Power:** 26W
- **Part Number:** ZY-140

General Specifications:

- **Brand:** YUCHENGTECH
- **Manufacturer:** YUCHENGTECH
- **Item Weight:** 6 Pounds
- **Power Source:** Corded Electric
- **Controller Type:** Manual Control
- **ASIN:** B09DT33WYT

- **First Available:** August 27, 2021

10. Warranty and Support

For warranty information, technical support, or service inquiries, please contact YUCHENGTECH directly. You can visit the official YUCHENGTECH store for more information and contact options:

Visit the YUCHENGTECH Store

Please have your model number (ZY-140) and purchase details ready when contacting support.

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