

Revision A 2025-12-16

INSTRUCTION MANUAL

Original Instructions

Gyro Air Industrial Dust Processor

**MODEL : G-700Pro
G-800Pro**

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1. Foreword and Warranty

Congratulations on your new Harvey GYRO AIR Industrial Dust Processor. We appreciate your support of Harvey and hope that this product will serve you well for many years to come! This owner's manual provides essential information to safely and efficiently operate your new dust processor. It includes setup, maintenance, troubleshooting, and safety details to ensure optimal performance and longevity of the machine.

Important Notes:

- **Keep this Manual:** Store this manual near the machine for quick reference. This instruction manual complies with the safety requirements of CSA C22.2 No.243:25 & UL 1017 for vacuum cleaners and dust processors. For the latest digital version of the manual, please refer to our website.
- **Warranty:** Your product is covered by a two-year warranty starting from the date of purchase. Defective parts will be repaired or replaced by Harvey at no charge. Harvey reserves the right to update specifications, design, and instructions without prior notice. The warranty excludes:
 - Normal wear, tear, and consumable parts
 - Abuse, misuse, or neglect of the product
 - Lack of proper care and maintenance
 - Use of non-genuine Harvey parts and/or components
 - Unauthorized repairs, alterations, or modifications
 - Damage due to force majeure (e.g., fire, explosion)
- **Serial Number:** Refer to the serial number on the machine's nameplate for all inquiries and service requests.

For any assistance or additional information about our product, then please contact our Harvey customer service team for assistance.

2. Safety Regulations

Before installing or operating this machine, operators and process owners must ensure compliance with all applicable Federal, State, Local, OSHA, NFPA, and other relevant regulations concerning the materials and dust being processed. This manual includes critical safety information to protect users and maintain optimal machine performance. Please read this section thoroughly and follow all instructions to ensure safe and effective operation. For the latest updates on safety guidelines, visit our website or contact customer support.

2.1 Important Safety Instructions

When using an electrical appliance, basic precautions should always be followed, including the following:

READ ALL INSTRUCTIONS
BEFORE USING (THIS APPLIANCE)

WARNING

WARNING - To reduce the risk of fire, electric shock, or injury:

1. Do not leave the appliance plugged in. Unplug from outlet when not in use and before servicing.
2. Do not use outdoors or on wet surfaces.
3. Do not allow the appliance to be used as a toy. Close attention is necessary when used by or near children.
4. Use only as described in this manual. Use only manufacturer's recommended attachments.
5. Do not use damaged cord or plug. If appliance is not working as it should, has been dropped, damaged, left outdoors, or dropped into water, return it to a service center.
6. Do not pull or carry by cord, use cord as a handle, close a door on cord, or pull cord around sharp edges or corners. Do not run appliance over cord. Keep cord away from heated surfaces.
7. Do not unplug by pulling on cord. To unplug, grasp the plug, not the cord.
8. Do not handle plug or appliance with wet hands.
9. Do not put any object into openings. Do not use any opening blocked; keep free of dust, lint, hair, and anything that may reduce air flow.
10. Keep hair, loose clothing, fingers, and all parts of the body away from openings and moving parts.
11. Turn off all controls before unplugging.
12. When cleaning near stairs or elevated platforms, use caution to avoid slips or falls.
13. Do not use it to pick up flammable or combustible liquids, such as gasoline, or use in areas where they may be present.
14. Connect to a properly grounded outlet only. See Grounding Instructions.
15. Do not pick up anything that is burning or smoking, such as cigarettes, matches, or hot ashes.
16. Do not operate the machine without installing the dust bag and filters.

SAVE THESE INSTRUCTIONS

2.2 General Safety Instructions

1. Thoroughly read and understand this manual and the labels affixed to the machine. Familiarize yourself with its applications, limitations, and potential hazards before use.
2. Ensure the power supply socket or terminal is reliably grounded to reduce the risk of electrical shock.
3. Keep the machine properly adjusted, aligned, and in good working condition. Clear cluttered workspaces and ensure the floor is clean and free from wax or sawdust buildup to prevent accidents.
4. **WARNING – To avoid electric shock:**
 - Do not expose the machine to water or moisture.
 - Operators must be adequately trained in the use of the machine.
5. **CAUTION – For indoor use only:**
 - Operate and store this machine indoors.
 - Do not use the machine in areas designated for flammable liquid storage or where volatile gases may be present. Always maintain a clean, dry, and well-lit work environment.
6. Keep children and untrained personnel away from the machine during operation. This machine is not a toy and must not be used as such.
7. Do not force the machine or its attachments to perform tasks beyond their design specifications.
8. Avoid wearing loose clothing, gloves, neckties, or jewelry (e.g., rings or watches) that could get caught in moving parts. Wear non-slip footwear and protective hair coverings for long hair. Roll up long sleeves above the elbows.
9. Do not operate the machine if you are tired, distracted, or otherwise impaired. Full mental alertness is required during operation.
10. Use ear protection if the machine generates excessive noise during operation.
11. Always wear ANSI-approved safety glasses or a face shield when operating or observing the machine to protect against flying debris. Regular eyeglasses are not sufficient safety protection.
12. **WARNING – To minimize the risk of electric shock:**
 - Always unplug the machine before performing any maintenance or servicing.
13. **WARNING – To avoid injury from moving parts:**
 - Ensure the machine is powered off and unplugged during maintenance or servicing.
14. Verify the main power switch is in the “OFF” position before plugging the machine into an electrical outlet.
15. After turning off the power, do not leave the machine unattended until all moving parts have come to a complete stop.
16. Routinely inspect the machine for signs of wear, damage, loose components, or any conditions that might affect its performance or safety. Promptly repair or replace any damaged or compromised parts before operating the machine to ensure safe and reliable functionality.
17. Keep the machine clean to facilitate the detection of any damage or wear. Use a clean cloth to wipe away dust buildup. Refrain from using solvents or harsh cleaning agents, as they can harm plastic or electrical components.

2.3 Specific Safety Instructions for Dust Processor

Clean Environment

- Before starting the machine, remove tools, loose objects, or debris from the work area to prevent unintended suction.

Intended Use

- This machine is designed for collecting dry dust, such as wood or non-hazardous particulates. Do not use it as a vacuum cleaner or for collecting stones, nails, or similar objects that could generate sparks and cause fires or explosions. The machine is not suitable for hazardous dust collection.
- This equipment is designed for commercial/industrial dust collection applications only.

Regular Cleaning

- Empty collection bags frequently to prevent fine dust buildup, which increases the risk of fire.
- Regularly clean the surrounding work area to minimize dust accumulation near heat sources.

Static Electricity

- Dust lines made of plastic can generate static electricity as dust passes through, posing a fire risk. Ground all dust lines using proper grounding wires to prevent sparks.

Hazardous Dust

- Dust generated during operation can pose health risks, including respiratory damage, cancer, or birth defects. Always wear a NIOSH-approved respirator to reduce exposure to harmful particles.

Dust Allergies

- Certain wood dusts may cause allergic reactions in people or animals. Know the materials being processed and take appropriate precautions.

Impeller Hazards

- Keep hands, tools, and objects away from the open inlet during operation. The powerful suction can draw in objects or cause accidental contact with the impeller, leading to severe injuries or machine damage.
- Prevent access by small animals or children to open dust collection inlets.

Electrical Safety

- Ensure the dust processor is turned off and unplugged during installation, maintenance, or cleaning to prevent unintended startup or contact with live electrical components.
- Avoid routing power cords through doorways, sharp edges, or areas with excessive foot traffic. Do not pull or carry the machine by the cord.

3. Machine Description

The **G-700Pro/G-800Pro Industrial Dust Processor** is a highly efficient solution for advanced dust collection, combining innovative technology with user-friendly design. This machine is engineered to meet the demands of industrial woodworking environments while maintaining superior performance and ease of use.

Gyro Air Technology

- **Efficient Dust Separation:** Utilizes patented Gyro Air technology to separate **99.7% of dust particles** from the airflow before reaching the filter. This drastically reduces filter clogging, ensuring longer filter life and consistent suction performance.
- **Enhanced Air Quality:** The Gyro Air emits less than 0.05mg/m³ of dust, which exceeds EU safety (CE) standards for dust emissions.

Intelligent Control

- Features real-time monitoring of key components, including:
 - Dust levels in the bin
 - Filter clogging status
 - Motor and converter performance
- Fully automated operation with functions like:
 - Auto-dust cleaning
 - Remote start
 - Delayed dust cleaning for optimal efficiency
 - Intelligent speed control via **Flow Cruise Technology**, maintaining consistent airflow for high-demand tasks.

Innovative Design

- Equipped with **heavy-duty casters** for easy mobility, enabling the unit to be positioned directly at the dust source.
- Eliminates the need for complex pipelines, reducing setup costs and simplifying installation.
- A robust, space-efficient design integrates seamlessly into industrial or workshop environments, offering both functionality and mobility.

Ease of Maintenance

- **Quick-change filters** with minimal tools to streamline routine maintenance.
- The machine filters dust and recirculates clean air back into the same room, eliminating the need for external venting.

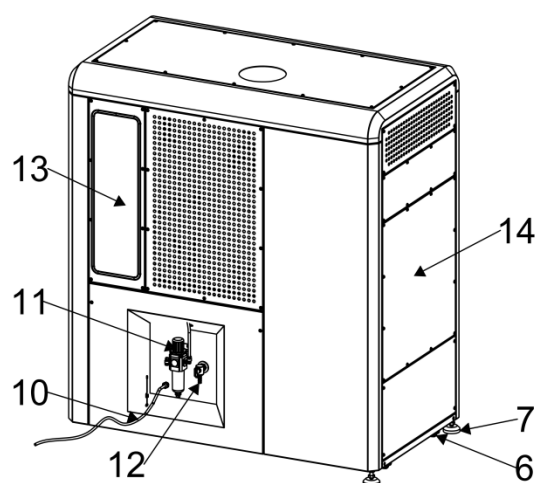
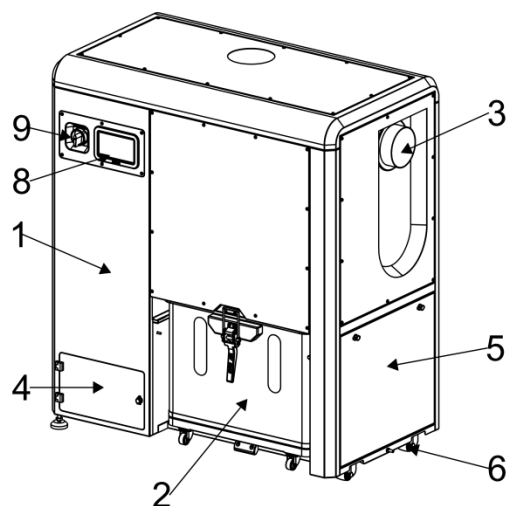
Key Benefits

- Low noise levels (as low as **60 dB**).
- Large dust bin capacity (**34 gallons**).
- Highly efficient performance with a **12.5-inch impeller** for maximum airflow.

3.1 Feature Identification (Fig.1)

1. Cabinet	6. Swivel Wheel	11. Oil Water Separator
2. Dust Bin	7. Foot	12. Drain Valve
3. Inlet	8. Operation Panel	13. Electrical box
4. Dust Box	9. Disconnect Switch	14. Filter (Interior)
5. Storage Box	10. Power Cable	15. Directional Wheel

G-800Pro



G-700Pro

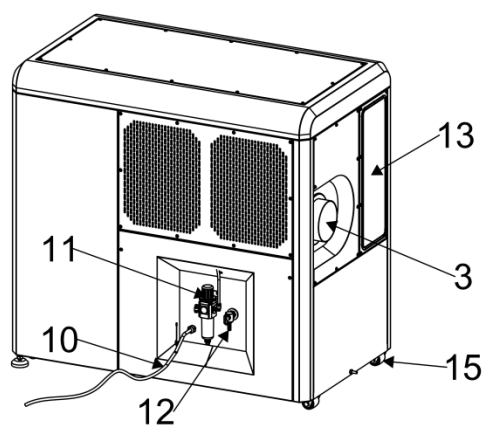
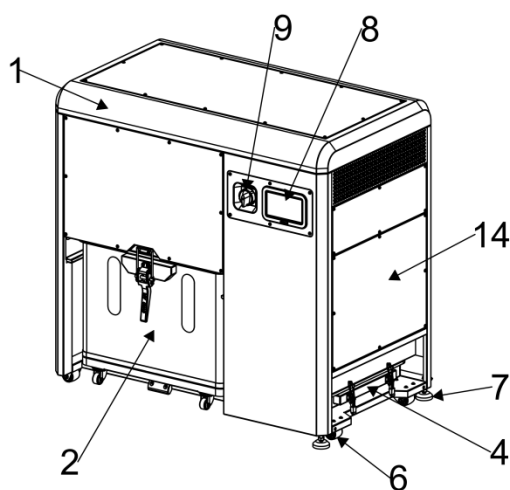


Fig.1

3.1.1 WHAT IS INCLUDED:

Item	Quantity	Item	Quantity
Main Dust Processor Unit	1	Hex Wrench Set	1 (eight pieces)
Remote Control	2	Open-end Wrench 14-17 mm	1
Dust bag	10	Instruction Manual	1

3.2 Specification

Model	G-700Pro	G-800Pro
Electrical		
Power Requirement	220-240V 60Hz 1-Phase	220-240V 60Hz 1-Phase
Full Load Current	15A	16A
Motor		
Power	3HP	3HP
Voltage/Phase	220V/3-Phase	220V/3-Phase
Rated Amps	6.8A	6.8A
Speed	2400-4200rpm	2400-4500rpm
Frequency	120-210Hz	120-225Hz
Dimensions & Weights		
Overall Dimension	47-1/4 x 27-1/2 x 45-1/2 in.	49-1/4 x 27-1/2 x 55-1/8 in.
Packing Size	54-1/8 x 31-1/8 x 51-1/8 in.	56-1/8 x 32-7/8 x 64-5/8 in.
Net Weight/Gross Weight	540/620 lbs	650/805 lbs
Performance		
Inlet Size	6"	6"
Max. Air Flow	1235CFM	1235CFM
Max. Static Pressure	19-1/4 inch water	19-1/4 inch water
Max. Air Flow @6" hose	750CFM	850CFM
Impeller Size	Φ12-1/2"	Φ12-1/2"
Filter Efficiency	99.35%@0.3~0.5μm	99.35%@0.3~0.5μm
Filter Emission Rating	0.05mg/m ³	0.05mg/m ³
Filter Surface Area	68SF	86SF
Number of Filters	2	2
Noise Rating @3m	60-71dB(A)	60-71dB(A)
Max. Dust Bin Capacity	34Gal	34Gal
Features		
Smart Jet-Pulse Filter Cleaning	Standard	Standard
Dust Full Monitor	Standard	Standard
Filter Monitor	Standard	Standard
Flow Cruise	Standard	Standard
Delayed Stop	Standard	Standard
Wireless Remote Control	Standard	Standard

3.3 Electrical Power Requirements

Power Supply

- **Recommended Voltage:** 220-240 VAC / 1PH / 60Hz
- **Recommended Breaker Size:** 20A

The machine requires no additional electrical installation and is designed to operate within a steady-state AC power supply range of **0.9 to 1.1 times the rated value (220-240VAC)**.

3.3.1 Equipment Grounding

GROUNDING INSTRUCTIONS

Grounding is required. In the case of malfunctions, grounding provides a safe path to reduce shock risk. This appliance is equipped with a cord having an equipment-grounding conductor and grounding plug. The plug must be inserted into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

WARNING

WARNING: Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with a qualified electrician or service person if you are in doubt as to whether the outlet is properly grounded. Do not modify the plug provided with the appliance-if it will not fit the outlet, have a proper outlet installed by a qualified electrician.

3.3.2 Cable Inspection and Extension

- **Inspection:**
 - Before operating the machine, inspect the power cable for any signs of damage.
 - Replace or repair damaged cables immediately to ensure safe operation.
- **Extension Cable Usage:**
 - Avoid using extension cables whenever possible, as they cause voltage drops that may damage the motor or other electrical components.
 - If an extension cable must be used:
 - **Minimum Gauge Size:** 12 AWG
 - **Maximum Length:** 50 ft. Shorter cables are recommended to minimize voltage drop.

3.3.4 Electrical diagram (Fig. 2)

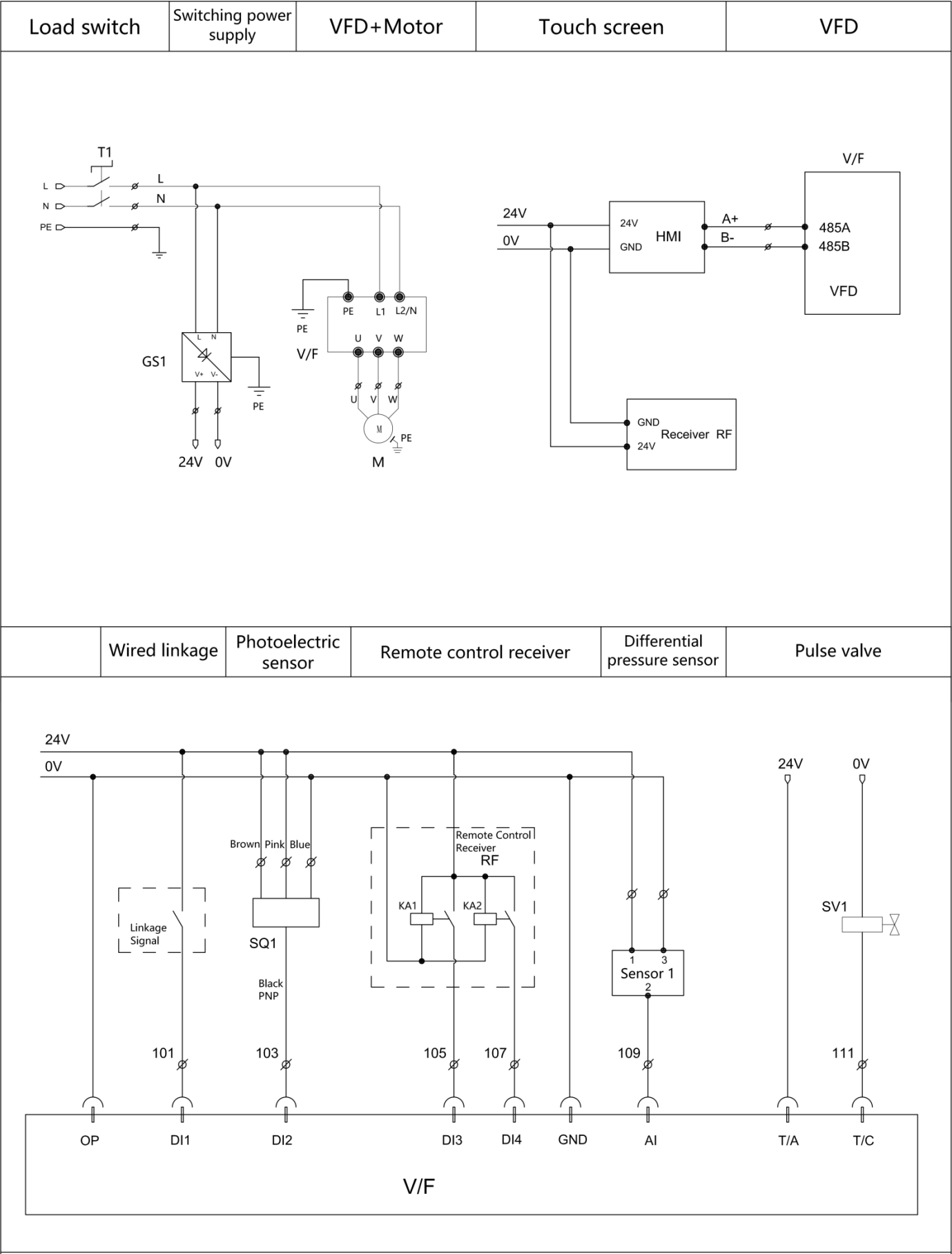


Fig.2

4. Assembly and Installation of the Machine

This machine is engineered for a hassle-free setup, requiring minimal assembly to get started. Most components come pre-assembled, significantly reducing the time and effort needed for installation. With a few straightforward steps, the machine can be unpacked, positioned, and connected, making it ready for operation almost directly out of the box. Whether in an industrial setting or a workshop, this design ensures a seamless installation process for users of all experience levels.

4.1 Transportation of Machine

4.1.1 Shipping, Transportation, and Storage of the Machine

- Temperature Range: Store and transport the machine within a temperature range of -25°C to 55°C (-77°F to 131°F).
- Altitude requirement: The maximum operating altitude of this dust collector is 1000 meters. Do not use this machine at altitudes above 1000 meters (3280 feet).
- Protect the machine from exposure to rain or physical damage during transportation and storage.

Important Guidelines:

- Only qualified personnel trained in equipment handling should transport or handle the machine.
- Ensure no personnel are positioned near the machine during loading or unloading to avoid injury.
- Use appropriate transportation equipment rated for the weight of the machine.
- Ensure the lifting device's capacity can handle the machine's weight.
- When operating in areas close to an altitude of 1000 meters, the effective air volume and suction power of the dust collector may slightly decrease due to reduced air density.

⚠️WARNING

WARNING: This machine is heavy. Improper lifting or handling can cause serious injury. Use power equipment and assistance when moving the shipping crate or removing the machine from the pallet.

4.1.2 Transportation Before Unpacking

The machine is securely packed in a durable wooden crate to ensure safe transportation. **Fig. 3** illustrates the recommended use of a forklift for moving the crate. Ensure the forklift is rated for the weight of the machine, and handle it with care to avoid tipping or damage.

Due to the heavy weight of the machine, it is strongly advised to hire professionals or trained personnel for transportation if a forklift is not available or additional assistance is required. Proper handling is crucial to ensure safety and prevent injury.



Fig.3

4.2 Unpacking and Pallet Removal

4.2.1 Unpacking and Inspection

Once the machine has been transported to its installation location, carefully unpack it and inspect its contents to ensure everything is in proper condition and accounted for. Follow these steps:

1. Open the Shipping Crate:

- Use appropriate tools to safely remove the wooden panels of the crate without damaging the machine or its contents.
- Avoid using excessive force to prevent scratches or dents.

2. Inspect for Shipping Damage:

- Check the machine and its components for visible signs of damage, such as dents, scratches, or misaligned parts caused during shipping.
- If any damage is found, do not proceed with installation. Report the issue immediately to your distributor or Harvey Customer Support.

3. Remove Packing Materials:

- Carefully remove all protective materials, such as foam, straps, and wrapping.
- Ensure that no small parts or accessories are discarded accidentally during this process.

4. Verify Accessories and Documentation:

- Cross-check all accessories and documents included in the shipment against the packing list to ensure everything is accounted for.

5. Confirm Product Consistency:

- Verify that the delivered machine matches the details specified in the order or packing list.
- Inspect the machine's label to confirm that specifications, such as the model number and performance details, align with the packing list.

6. Prepare for Positioning:

- Once unpacked and inspected, ensure the machine is stable and ready to be safely moved to its final installation location and to be removed from the pallet.

Completing these steps thoroughly will help ensure the machine is ready for installation and operation. For any discrepancies or concerns, please contact Harvey Customer Support for further resolution.

4.2.2 Transportation and Removing the Pallet

Once the machine has been uncrated, it must be transported to its final setup position. Depending on the available equipment and floor conditions, choose one of the following methods for safe handling:

Method 1: Transporting with the Pallet

1. Transport Using a Forklift:

- With the machine still secured to the pallet, use a forklift to carefully move the pallet to the final setup location.
- Important: Pay attention to the machine's center of gravity, as the motor side is heavier. Ensure the forklift forks are positioned evenly beneath the pallet to maintain balance before lifting (refer to **Fig. 4**).

2. Unbolt the Machine from the Pallet:

- Loosen the lock handle, detach the dust bin from the machine to make handling easier and prevent interference during movement and lifting (refer to **Fig. 4**).
- Remove the two (2) L-shaped securing brackets and the four (4) transport bolts holding the machine to the pallet (G-800Pro refer to **Fig. 5**, G-700Pro is similar).

3. Lift and Position the Machine:

- Lift the machine off the pallet and carefully lower it into its final position. For detailed instructions on how to remove the machine from the tray and how to place it correctly, please refer to the next section.
- Once in position, engage the rubber feet to secure the machine and prevent movement during operation (G-800Pro refer to **Fig. 6**, G-700Pro is similar).

Important Notes:

- Ensure the pallet is placed as close as possible to the final setup location before unbolting the machine to minimize unnecessary movement.
- Avoid transporting the pallet over uneven, dirt, or gravel surfaces, as this may destabilize the load.

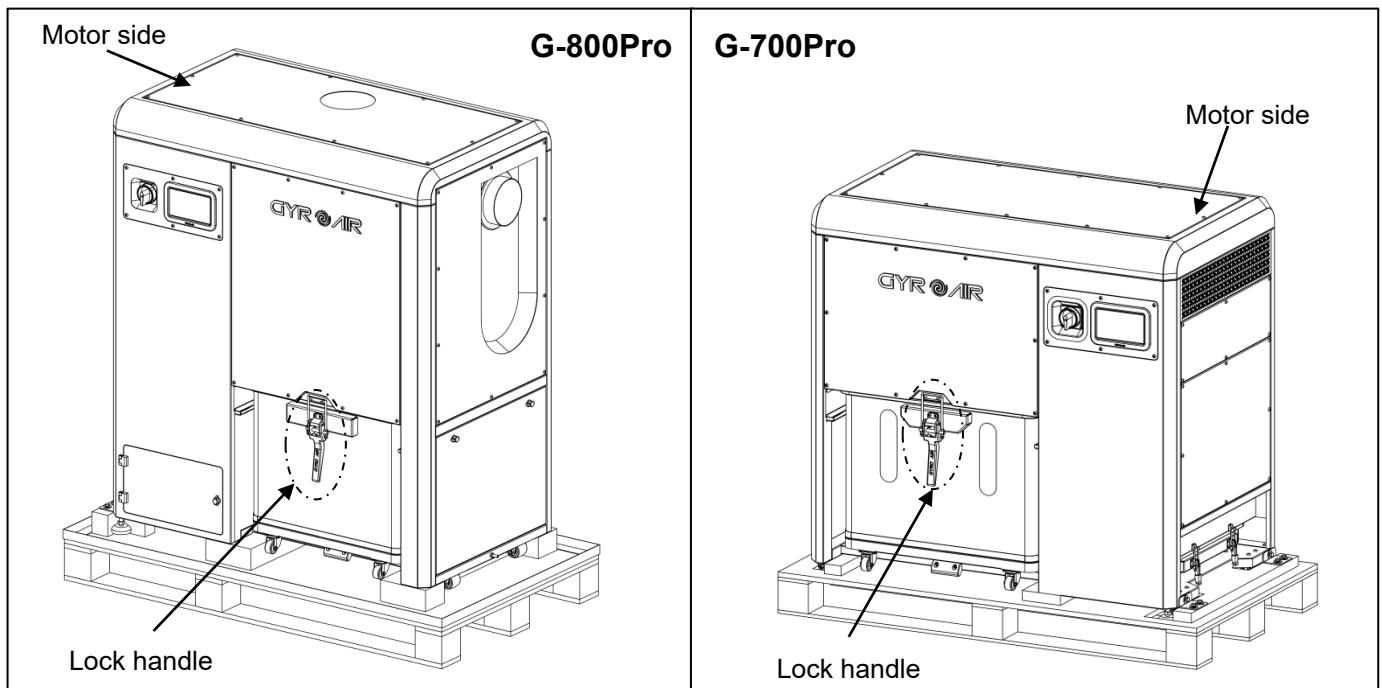


Fig.4

Method 2: Direct Removal from the Pallet

1. Unbolt the Machine from the Pallet:

- Loosen the lock handle, detach the dust bin from the machine to make handling easier and prevent interference during movement and lifting (refer to **Fig. 4**).
- Remove the two (2) L-shaped securing brackets and the four (4) transport bolts holding the machine to the pallet (G-800Pro refer to **Fig. 5**, G-700Pro is similar).

2. Lift the Machine Off the Pallet:

- Using a Forklift: If available, use a forklift to carefully lift the machine off the pallet, paying close attention to the machine's center of gravity to maintain balance. (**Applicable to G-800Pro**)
- Alternative Lifting Methods: (**Applicable to G-700Pro**)
 - Straps with Manual Assistance: Use heavy-duty lifting straps and a team of at least three trained individuals to lift the machine evenly off the pallet.
 - Overhead Crane: If available, use an overhead lifting system with rated straps or chains to safely remove the machine.

3. Position the Machine into Place:

- Once off the pallet, roll the machine to its final setup location using the built-in casters. For detailed recommendations on proper machine positioning, please refer to the next section.
- Important: Ensure the floor is smooth and level, as the casters are not suitable for uneven or rough terrain.

4. Engage Rubber Feet:

- After the machine is in its final position, engage the rubber feet to prevent movement during operation (G-800Pro refer to **Fig. 6**, G-700Pro is similar).

Important Notes:

- Position the pallet as close to the final location as possible before removing the machine to reduce unnecessary rolling.
- If assistance is required for either method, contact trained personnel or professionals.

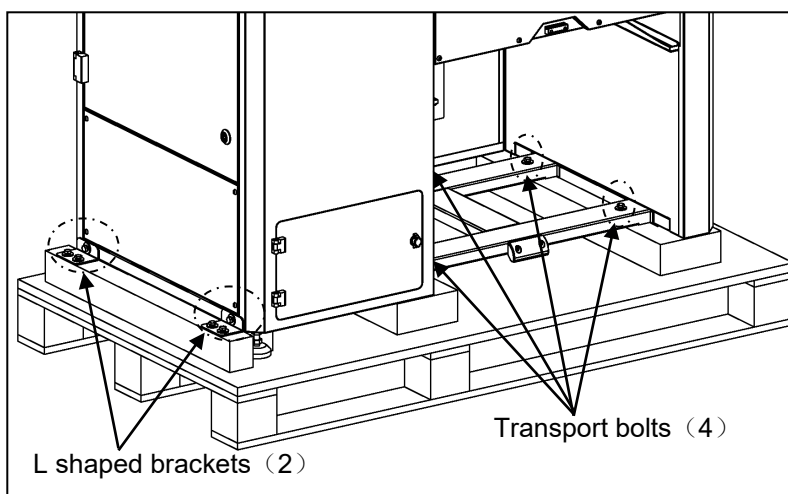


Fig.5

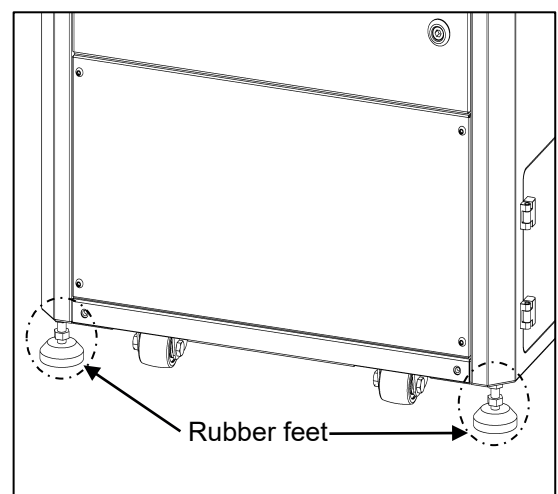


Fig.6

4.3 Positioning the Machine

Proper positioning of the machine is essential to ensure safe operation, effective performance, and adequate ventilation for the motor. Follow these guidelines when placing the machine:

1. Distance from Walls or Obstacles:

- Position the machine at least **50cm (18 inches)** away from walls, barriers, or any surrounding obstacles. This clearance ensures sufficient airflow around the machine, preventing overheating and allowing the motor to dissipate heat effectively.

2. Stable and Level Surface:

- Place the machine on a **stable and level surface** to maintain operational stability. Uneven surfaces may lead to vibrations or misalignment during use.

3. Engage the Rubber Feet:

- After positioning the machine, engage the rubber feet to secure it in place. This prevents unwanted movement or shifting during operation and ensures stability, especially on smooth surfaces.

4. Accessibility:

- Ensure adequate space is available around the machine for routine maintenance, cleaning, and ease of operation. Leave enough room to access critical components such as the dust bin, filter, and control panel.

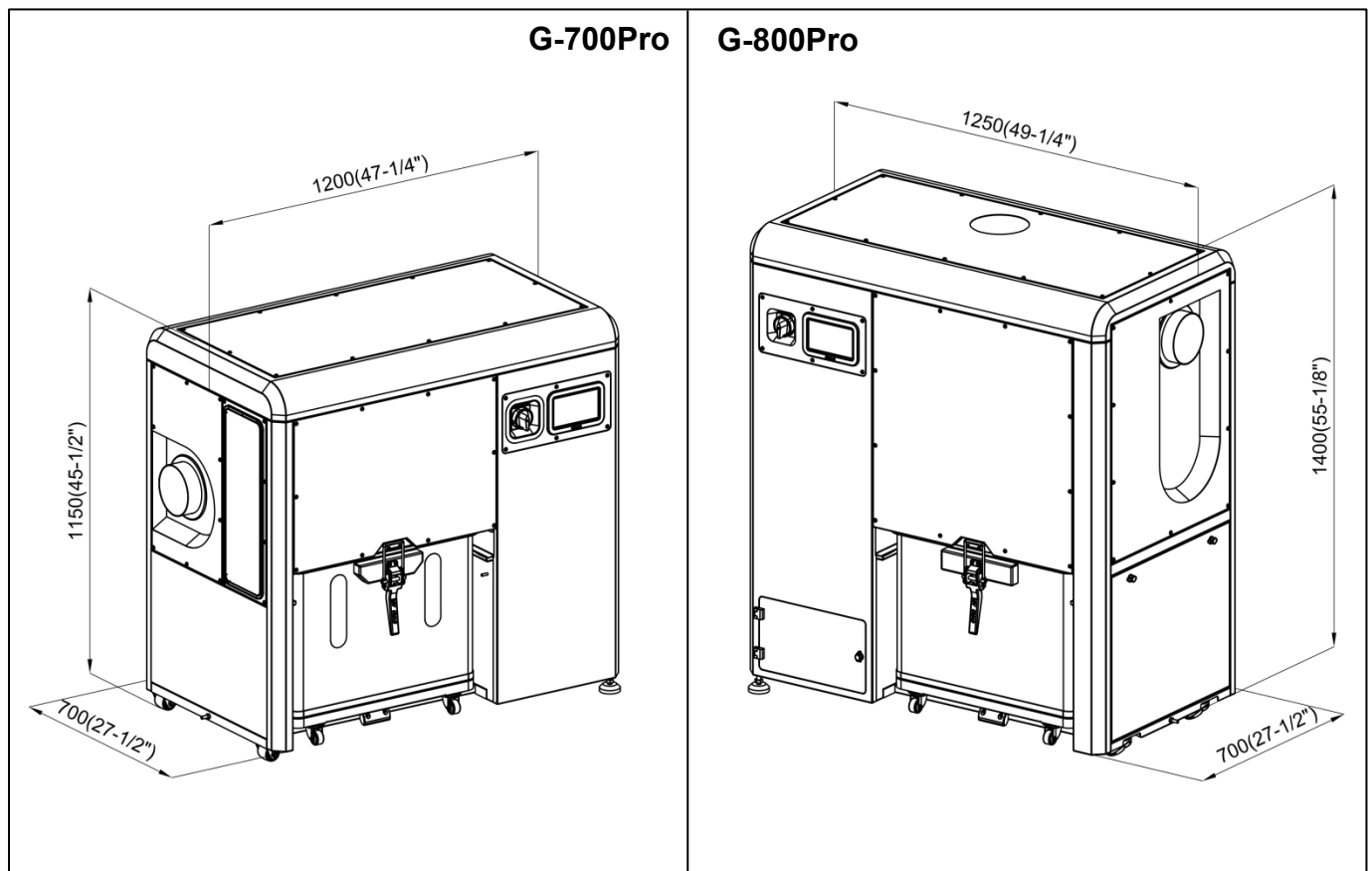


Fig.7

5. Safety Considerations:

- Avoid positioning the machine near flammable materials or in poorly ventilated areas.
- Make sure the machine is not exposed to excessive moisture, which can affect its electrical and mechanical components.

Refer to **Fig.7** for visual guidance on proper positioning. These steps will help ensure optimal performance, safety, and longevity of the machine.

4.4 Connection of Ducting and Changing Inlet Position

4.4.1 Connecting the Dust Source

Proper ducting is critical for the dust collection system to perform efficiently and safely. Follow these guidelines to connect the machine to the dust source:

Flexible Hose vs. Solid Pipe Ducting

- **Flexible Hose:**
 - Best used for **short connections**, such as between a machine and the branch duct.
 - **Not recommended for long runs**, as the ribbed interior increases airflow resistance, reducing efficiency and performance.
- **Solid Pipe Ducting:**
 - Essential for **overhead** or **longer ducting runs**, where consistent airflow and reduced turbulence are critical.
 - Provides smoother airflow paths and better long-term performance compared to flexible hoses.

Material Options for Solid Ducting

- **Metal Ducts:**
 - **Galvanized steel** or **aluminum** ducts are ideal for permanent installations, offering:
 - High durability to withstand wear and tear.
 - Low static electricity buildup, reducing the risk of sparks and fires.

Grounding is Critical for All Ducting Types

- Whether using **metal ducts** or **flexible hoses**, ensure proper grounding throughout the system:
 - Grounding prevents the buildup of static electricity, which can ignite fine dust particles.
 - Install grounding wires along the length of the ducting, securely connecting them to an appropriate grounding point.
 - For flexible hoses, attach conductive grounding tape or cables to the exterior and ground them properly, as shown in **Fig. 8**.

IMPORTANT:

- Use **flexible hoses** only where necessary and prioritize solid ducting for main and branch runs.
- For ducting only steel ducts and flame-retardant flexible hoses shall be used; consistent earthing shall be ensured.
- Consult with a **qualified professional** to design and install a system that meets your workspace and material requirements.

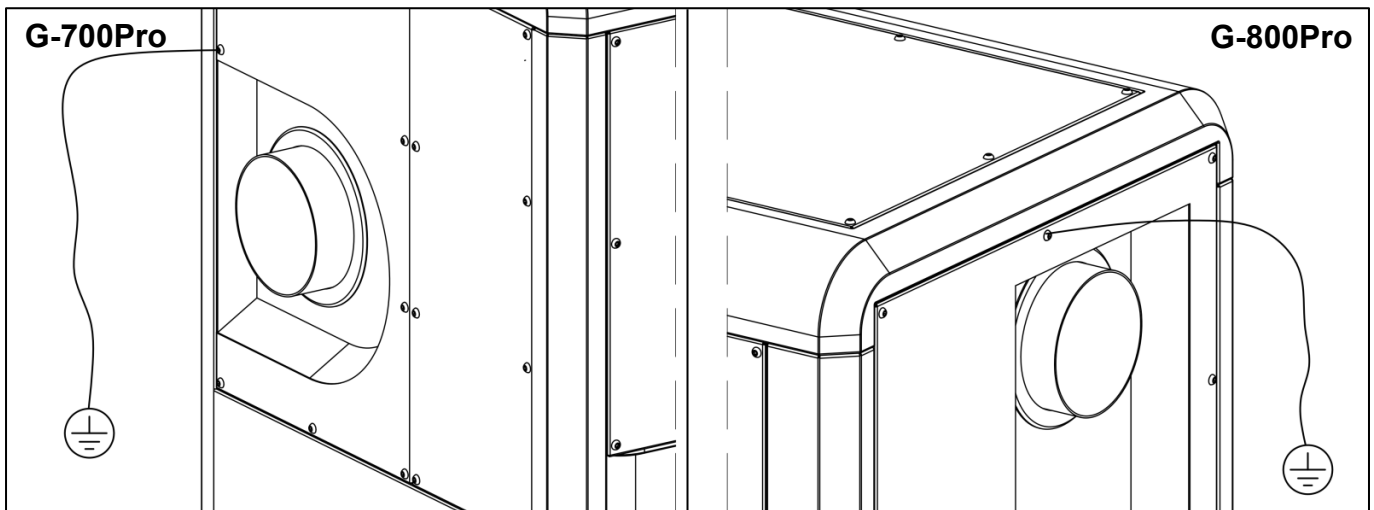


Fig.8

Ducting Recommendations

Ducting configurations will vary based on your workspace and the materials being collected. This guide uses **woodworking dust** as an example; specifications may vary for other materials. Consult a **qualified professional** for guidance on proper setup. Key considerations include:

1. Air Velocity:

- For woodworking dust collection, ducts must maintain a **minimum** of the following air velocities:
 - **3500 feet per minute (fpm)** in main ducting.
 - **4000 fpm** in branch ducting leading to the machine.
- For materials other than woodworking dust, air velocity requirements may differ.

2. Duct Sizing:

- Proper duct sizing is critical to maintain airflow.
 - **Undersized ducts** can restrict air movement and overload the system.
 - **Oversized ducts** can decrease air velocity, leading to inadequate dust collection.

3. Material Grounding:

- Ground all ducting materials, whether metal ducts or flexible hoses, to reduce the risk of static electricity buildup, which could result in sparks or fire.

4. Measurement Tools:

- Use an **anemometer** to measure air velocity and ensure your system meets the recommended specifications for your specific dust collection needs.

4.4.2 Changing the Inlet Position (Only For G-800Pro)

The air intake of the **G-800Pro** is usually located on the side, but it can also be adjusted to the top to fit the piping layout above. To change the position of the air intake, please follow these steps:

1. Remove the Covers

- Detach the **right side cover** and the **top cover**.

2. Reposition the Components

- Remove and swap the **rubber gasket** on the right side cover with the **intake cover plate** on the top cover.
- Reinstall the swapped components in their new positions.

3. Reattach the Inlet Port

- Remove the **inlet port** and the **adapter**.
- Attach the inlet port directly to the separator (the original adapter connection) using screws.
- Inspect the **sealing gasket** for any damage. Replace the gasket if necessary to ensure a proper seal.

4. Reinstall the Covers

- Reattach the **right side cover** and the **top cover** securely.
- Store the removed adapter for future use if you need to change the inlet position again.

Refer to **Fig. 9** for visual instructions.

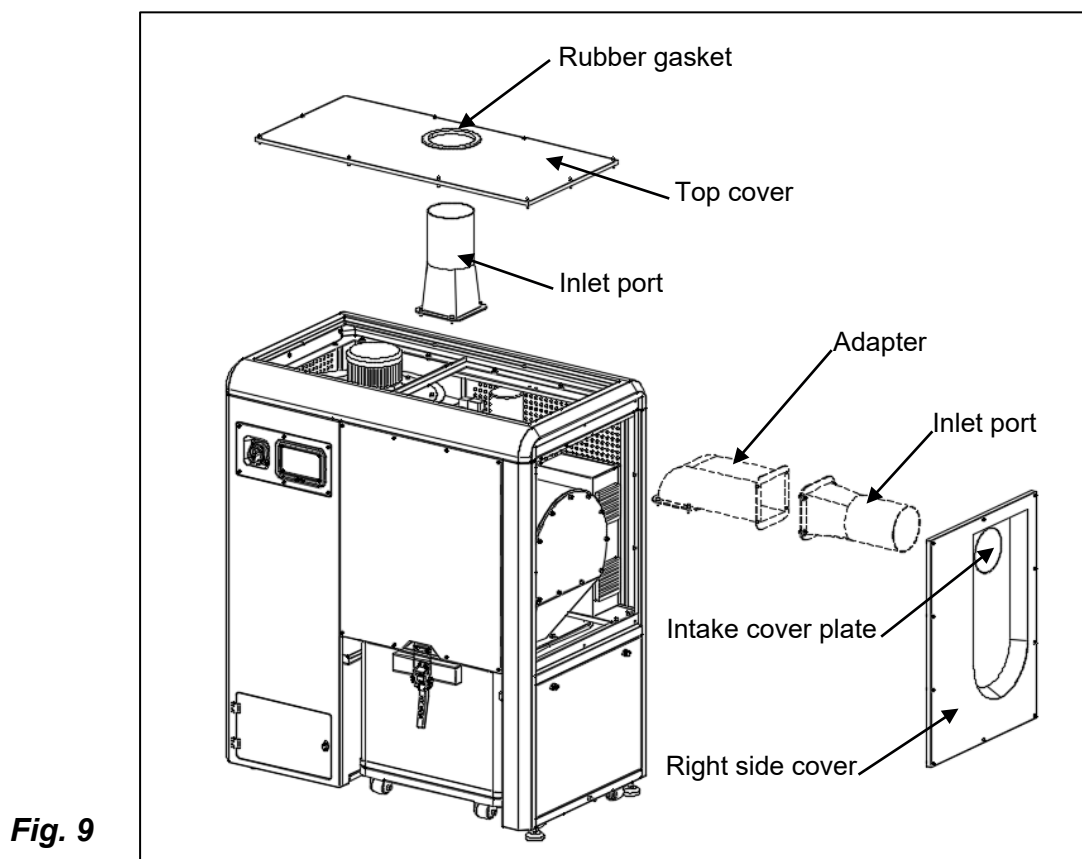


Fig. 9

IMPORTANT:

- This machine does not include dust collection hoses, as configurations vary depending on the specific dust source.
- Flexible hoses should only be used for short connections to minimize performance losses.
- For complex setups or troubleshooting, consult a **qualified professional** to ensure proper ducting and compliance with safety and performance standards. Proper ducting is crucial for efficiency, safety, and compliance with local regulations.

4.5 Electrical Setup and Safety Guidelines

Wiring

- The Gyro Air G-700Pro/G-800Pro is typically pre-wired for operation. However, if rewiring is required, follow the electrical specifications listed on the **nameplate** located on the machine or consult the **owner's manual** for detailed instructions.
- For additional guidance, refer to the **electrical diagram** in **Fig. 2** to verify proper connections.

Grounding

- Locate the **grounding screw** on the machine's **right side** (see **Fig. 10**).
- Connect the grounding screw to a **permanent, grounded metal wiring system** to ensure safety and compliance with electrical standards.
- Proper grounding is critical to provide a low-resistance path for electrical current, protecting against electrical shock and equipment failure.

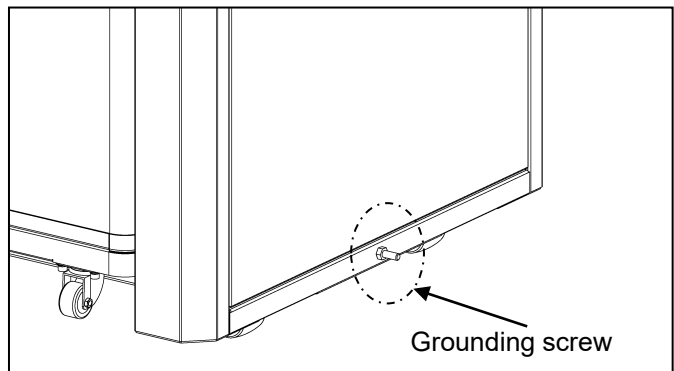


Fig. 10

Electrical Connection Requirements

- All electrical connections must comply with **local building codes and ordinances**.
- Only a **qualified electrician** should handle electrical installations and ensure the power supply matches the machine's specifications as stated on the nameplate.

Safety Warnings

- **Power Off Before Connecting:**
 - Ensure the main switch is in the **“OFF” position** before connecting the power supply to avoid accidental startup or unexpected motion.
- **Mandatory Grounding:**
 - The machine must be grounded to prevent electrical shock and potential fatal injury.
- **Inspect Power Cords:**
 - Regularly check power cords for damage or wear, and replace them immediately to prevent short circuits or fire hazards.

- **Avoid Improper Extension Cords:**

- Using undersized or excessively long extension cords can cause voltage drops, overheating, and loss of power. Use only industrial-grade extension cords rated for the machine's power requirements.

Additional Recommendations

- **Power Down After Use:**

- Always turn off the machine after use and/or unplug it from the power supply. Do not leave the machine unattended while powered on, as power fluctuations could damage its electrical components.

- **Monitor Power Fluctuations:**

- Use a surge protector or voltage regulator to protect the machine's electrical system from power surges or unstable power supplies.

- **Check Grounding Connections Regularly:**

- Periodically inspect the grounding connection for signs of wear, corrosion, or looseness, and tighten or replace as needed.

- **Outlet Compatibility:**

- Verify that the outlet is properly grounded and rated to handle the machine's current requirements to ensure safe and efficient operation.

4.6 Compressed Air Connection and Requirements

The **Gyro Air G-700Pro/G-800Pro** requires connection to a **compressed air line** to operate its **automatic dust cleaning feature** effectively. An air compressor is necessary to provide the required air pressure and volume. (The air compressor needs to be provided by the customer.)

Before Connecting the Air Supply

- Ensure the machine's **switch** is in the **"OFF" position** to prevent accidental activation during setup.

Air Pressure Requirements

- Maintain an air pressure of at least **0.8MPa (115psi)** for optimal performance.

Connecting the Air Supply

1. **Inspect the Pressure Valve:**

- Check the **oil-water separator pressure valve**. If it does not read **0.6MPa (87psi)**, adjust it to the correct pressure as follows:
 - Pull up the oil-water separator pressure valve.
 - Turn the pressure valve counterclockwise until the needle on the pressure valve points to 0.6 MPa.
 - Press the pressure valve back down to lock it in place, preventing further rotation.

2. **Close the Drain Valve:**

- Ensure the **drain valve** under the gas container is closed by setting the handle to the **horizontal position**.

3. Attach the Air Hose:

- Connect an **8mm air hose** to the designated position on the machine as shown in **Fig. 11**.

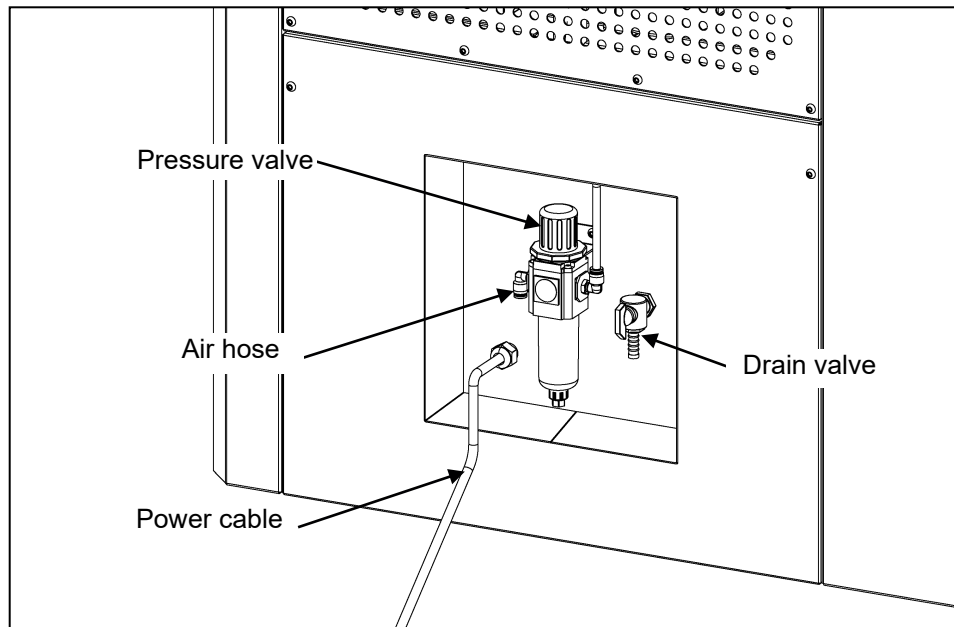


Fig. 11

Additional Notes

- Use a reliable air compressor with sufficient capacity to meet the machine's continuous air pressure needs.
- Refer to **Fig. 11** for visual guidance during the connection process.

Congratulations! You have successfully completed the assembly of your Gyro Air G-700Pro/ G-800Pro. Your machine is now fully prepared for operation and ready to deliver optimal dust collection performance.

Before Operation

- Double-check all connections, including the **power supply, compressed air line, and ducting system**, to ensure they are secure and properly installed.
- Verify that the machine is positioned correctly, with all rubber feet engaged for stability.
- Inspect for any loose components or packaging materials that may have been overlooked during assembly.

Next Steps

- Familiarize yourself with the operation manual to understand the controls and recommended settings for your machine.

5. Function and Operation

Operating Temperature Range: This equipment is designed to operate normally within an ambient temperature range of **5°C to 40°C (41°F to 104°F)**. Within this temperature range, the equipment can achieve optimal performance and ensure long-term service life.

5.1 Touch Screen Operation Instructions

When the machine is powered on, the **touch screen interface** will illuminate and display the **main interface** (refer to **Fig. 12**). The interface is divided into three primary sections for user interaction:

A: Running Status Display Area

B: Operation and Control Area

C: Parameter Setup Area

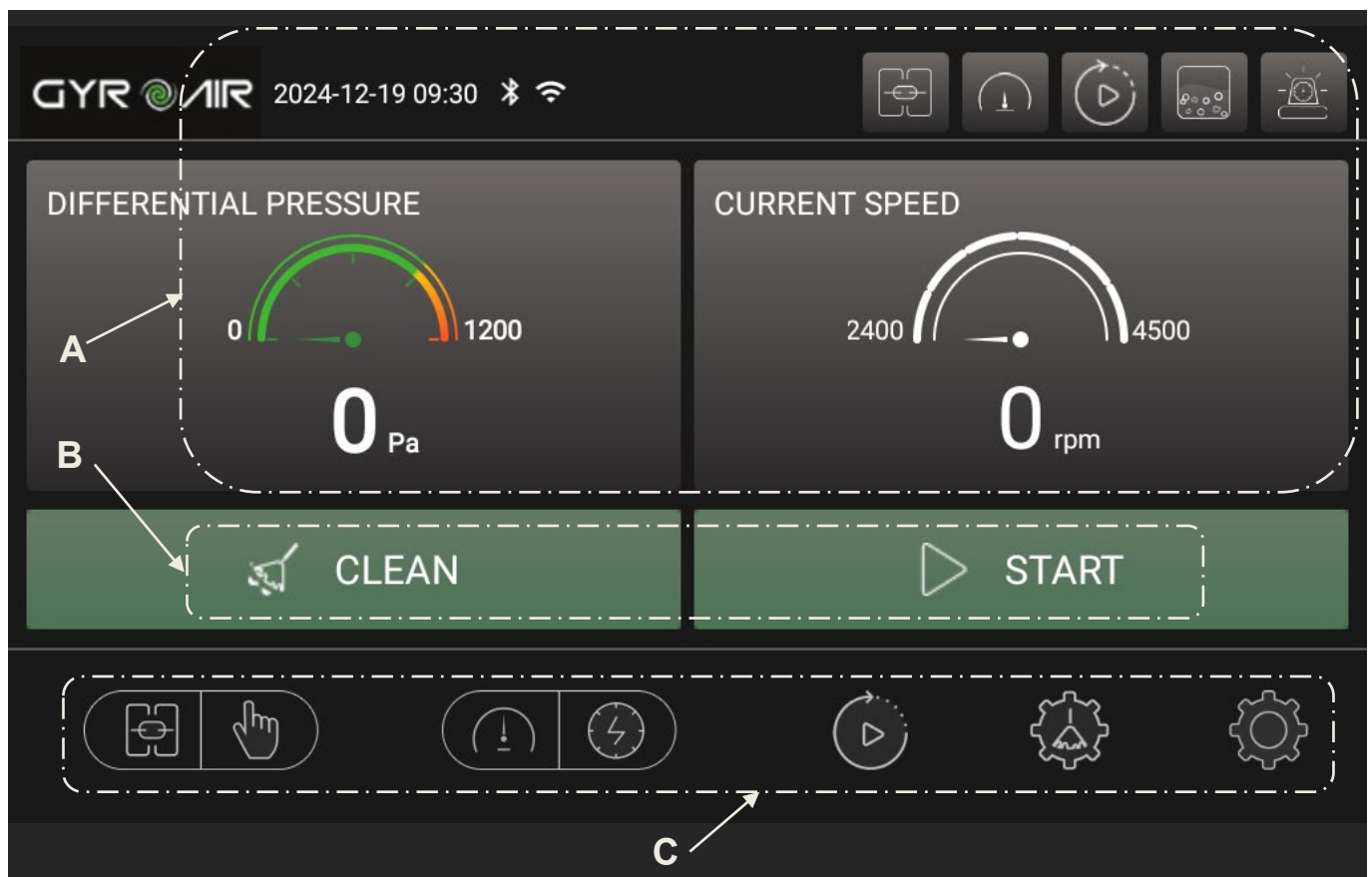


Fig. 12

5.1.1 Running Status Display Area (Section A)

This section provides real-time updates on the machine's operation and status. Refer to **Fig. 12-1** for details on each display component:

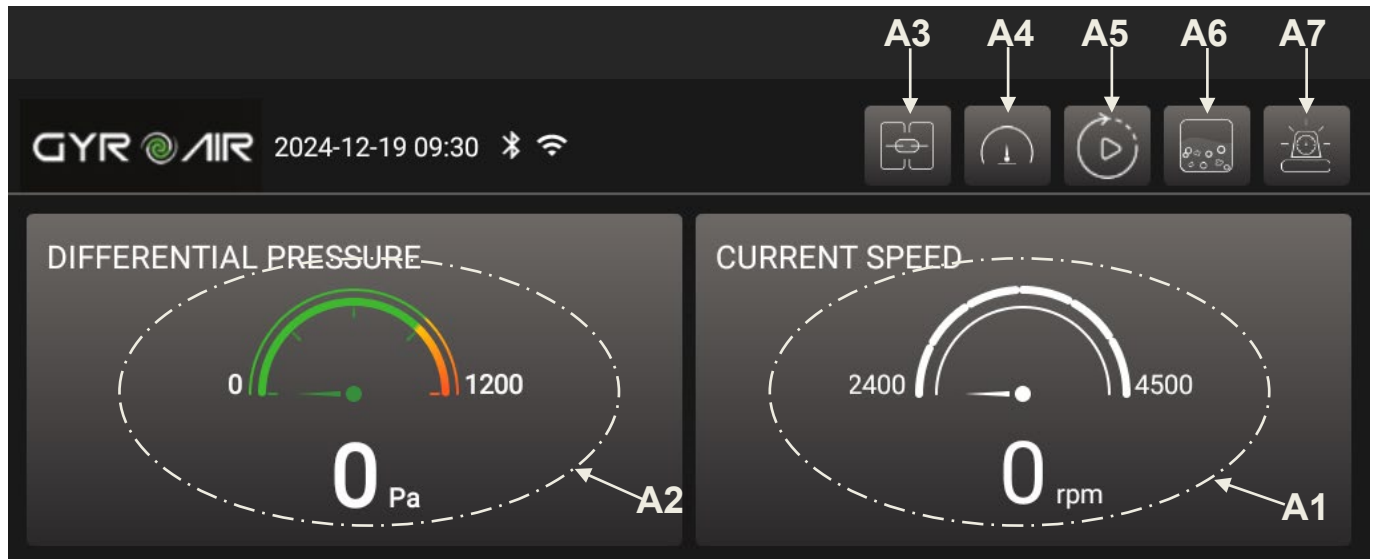


Fig. 12-1

A1: Motor Running Speed

- Displays motor running speed in revolutions per minute (RPM).
 - The fixed number on the left represents the minimum motor running speed, while the number on the right represents the maximum motor running speed.
 - The pointer on the speedometer and the value displayed below it indicate the current motor running speed.

A2: Filter Status

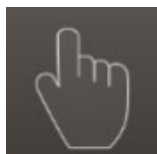
- Shows the filter's pressure difference status:
 - The number in the red area on the right starts at a value 200Pa higher than the set pressure difference threshold.
 - The pointer on the pressure scale and the value displayed below it dynamically reflect the airflow resistance (pressure) across the filter.

A3: Start/Stop Mode

- Indicates the selected start/stop mode:



Linkage Mode: Synchronizes with other linked equipment. In linkage mode, if manual operation is performed, the linkage mode will be disabled, and this icon will start flashing. Press this icon manually to restore the linkage mode.



Manual Mode: Operated directly by the user.

A4: Running Mode

- Displays the machine's operating mode:



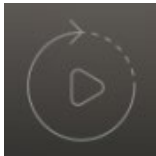
Speed Adjustment Mode: Adjust motor speed as needed.



Cruise Mode: Maintains constant power output for consistent performance.

A5: Shutdown Mode

- Shows whether a delayed shutdown is active:



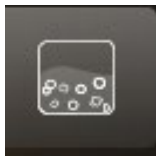
No Delayed Stop: The machine stops immediately after being powered off.



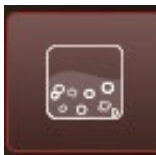
Delayed Stop: The machine continues running briefly for cleaning or other post-operation processes.

A6: Dust Bin Status

- Monitors the dust bin capacity:



Dust Bin Not Full: The machine can continue operating.



Dust Bin Full (Red Background) : The machine requires the dust bin to be emptied before further operation.

A7: Alarm Information

- Displays the current operational status:



Normal Running: The machine is operating without issues.



Running Fault (Red Background) : Indicates an error or fault condition requiring user attention.

Refer to **Fig. 12-1** for a visual breakdown of these display elements.

5.1.2 Operation and Control Area B (Fig. 12-2)

The **Operation and Control Area** consists of two main buttons, as shown in **Fig. 12-2**:

- **B1: Start/Stop Button and Alarm Status**
- **B2: Filter Dust Cleaning Button**

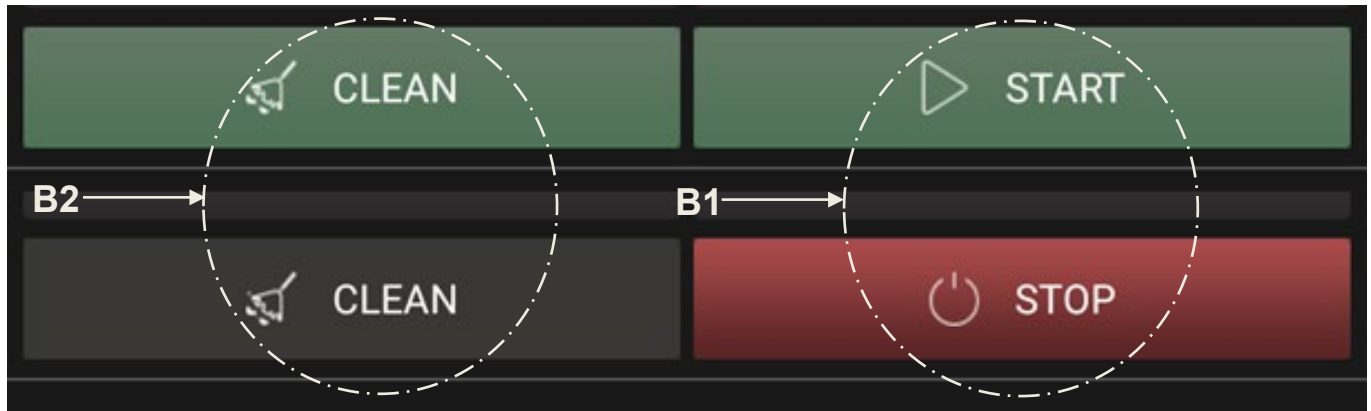


Fig. 12-2

B1: Start/Stop Button and Alarm Status

The **B1 button** is used to control the machine's START/STOP function and monitor alarm notifications. Key functionalities are outlined below:

- **Button Activation:**
 - Press and hold the button for at least **0.1 seconds** to activate or deactivate the machine.
- **Indicator Colors:**
 - **Green Background:**
 - Indicates the machine is powered on and in **standby mode**. Press the button to start the machine.
 - **Red Background:**
 - Indicates the machine is **running**. Press the button to stop the machine and return it to standby mode.
- **Delayed Stop Mode:**
 - If the machine is set to **Delayed Stop Mode**, pressing the button will initiate a countdown displayed in the **Shutdown Mode Area (A5)**.
 - The default delayed stop time is **10 minutes**.
 - To stop the machine immediately during the countdown, press the button twice within **1 second**.

B2: Filter Dust Cleaning Button

The **B2 button** activates the manual dust cleaning system. Key functionalities include:

- **Manual Cleaning:**
 - Press this button to initiate a dust cleaning cycle. The machine will clean the filters for a designated period.
- **Button Inactivity:**
 - If the machine is already in an automated cleaning cycle or if **Dust Cleaning Forbidden in Running Mode** is active, the button will appear grayed out and cannot be operated.

5.1.3 Parameter Setup Area C (Fig. 12-3)

The **Parameter Setup Area** allows users to configure various machine settings. These settings include Start/Stop modes, Running modes, Delayed Stop, Dust Cleaning parameters, and System Setup options.

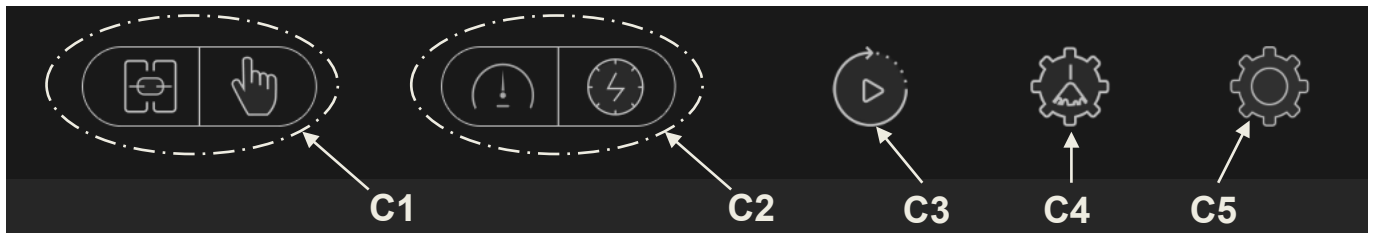


Fig. 12-3

C1: Start/Stop Setup (Fig. 12-4)

- Select between two start/stop modes:
 1. **Manual Mode**: User-controlled operation.
 2. **Linkage Mode**: Synchronizes with external equipment when paired with a Gyro Air Synchronized Control (Sold Separately)
- Confirm the desired mode by clicking the **C1 button**, then return to the main interface by selecting the 'x' icon in the top-right corner.



Fig. 12-4

C2: Running Mode Setup (Fig. 12-5)

The machine can operate in two running modes:

1. **Speed Adjustment Mode**:
 - Select this mode to manually set the motor speed (default factory setting: **4200 RPM**).
 - Enter a speed value between **2400–4200 RPM** (For: **G-700Pro**).
 - Enter a speed value between **2400–4500 RPM** (For: **G-800Pro**).
2. **Flow Cruise Mode**:
 - Select this mode to maintain constant motor power output.

- Enter a motor power value between **500–2200 W** (default factory setting: **2000 W**).
- Confirm the desired mode by clicking the **C2 button**, then return to the main interface by selecting the **‘x’ icon**.

Note:

In the **Flow Cruise Mode**, the fan speed of the G-700Pro can reach 4500 RPM.

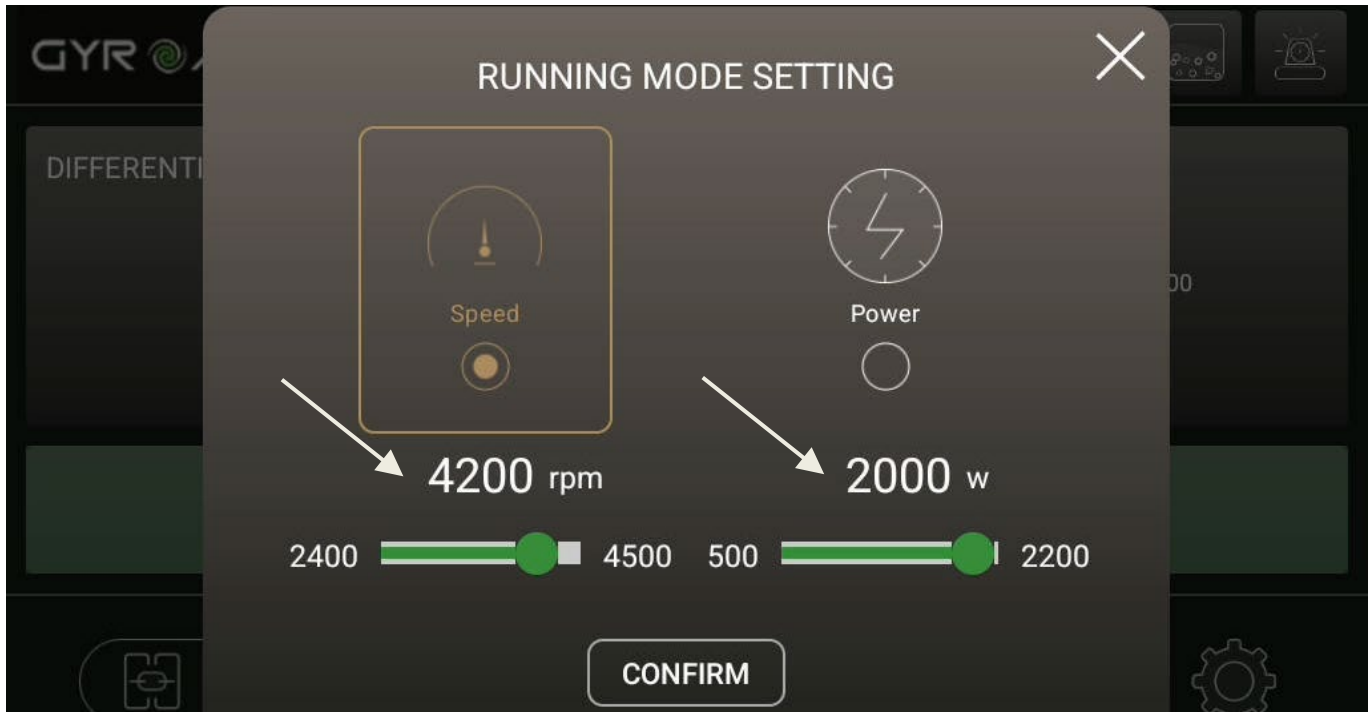


Fig. 12-5

C3: Delayed Stop Setup (Fig. 12-6)

- Set a **delayed stop** time for the motor to continue running after operation. This feature is useful for cleaning residual dust in the air.
- Default delayed stop time is **10 minutes**.
- Access the setup by clicking the **C3 button**, adjust the time, and confirm. Return to the main interface by selecting the **‘x’ icon**.

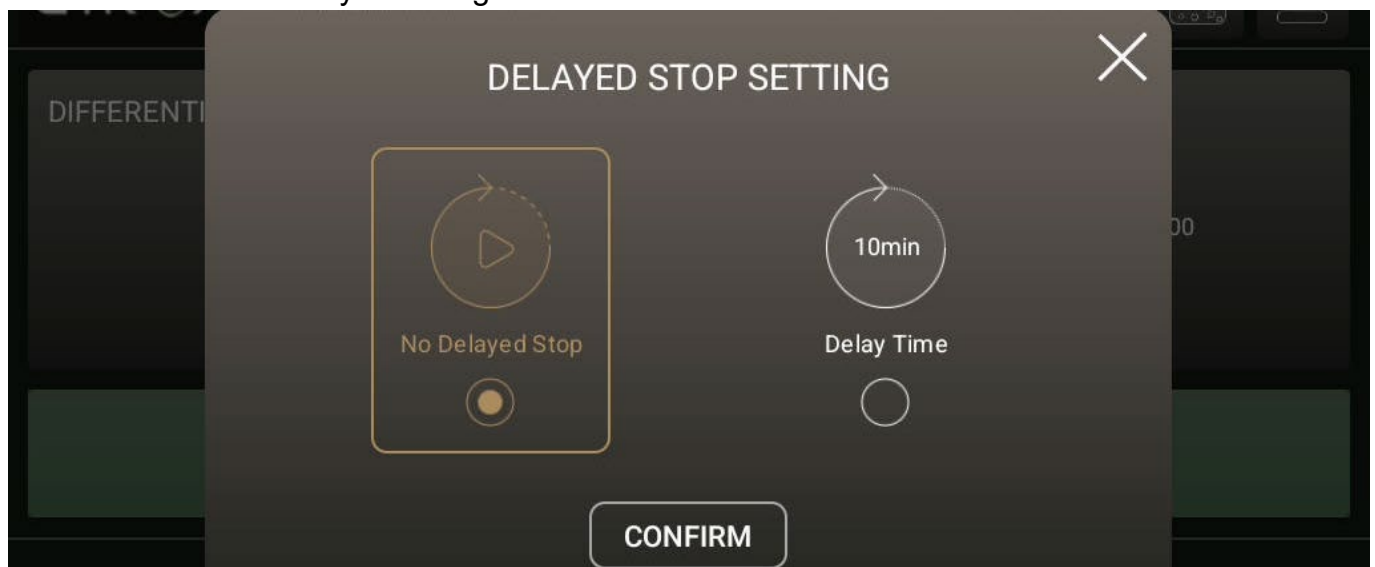


Fig. 12-6

C4: Dust Cleaning Parameter and Mode Setup (Fig. 12-7)

- **Dust Cleaning Parameters:**
 1. Set the **filter pressure difference threshold** between **500–2000 Pa** (default: **1000 Pa**).
 2. Enter the value in the input area and confirm.
- **Dust Cleaning Modes:**
 1. **Dust Cleaning Allowed in Running:** The machine cleans dust during operation. (Factory default setting.)
 2. **Dust Cleaning Forbidden in Running:** Disables dust cleaning during operation.
 3. **Automatic Dust Cleaning:** Automatically cleans the filters when the pressure difference exceeds the threshold.
 4. **Manual Dust Cleaning:** Allows user-controlled cleaning cycles.



Fig. 12-7

C5: System Setup (Fig. 12-8):

The System Setup menu allows users to configure global settings:

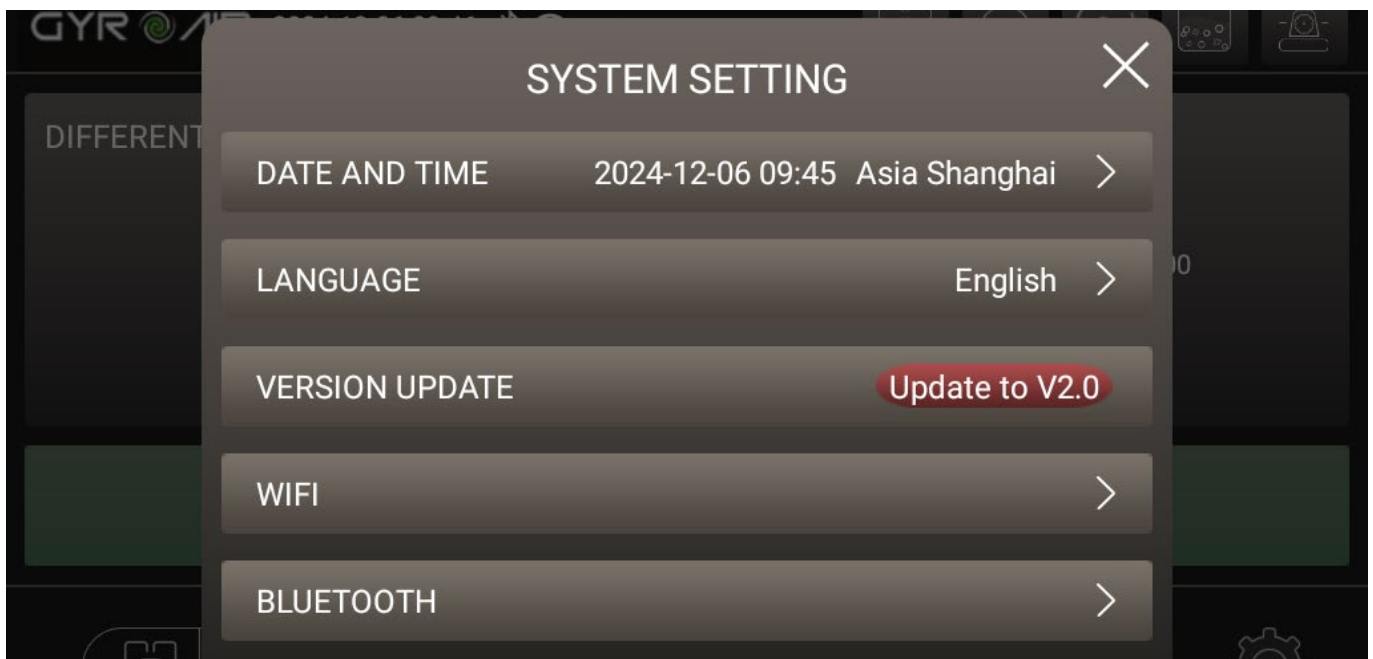


Fig. 12-8

1. **Date and Time Setup (Fig. 12-9):**

- Set the system's current date and time, and select the time zone of your current location.

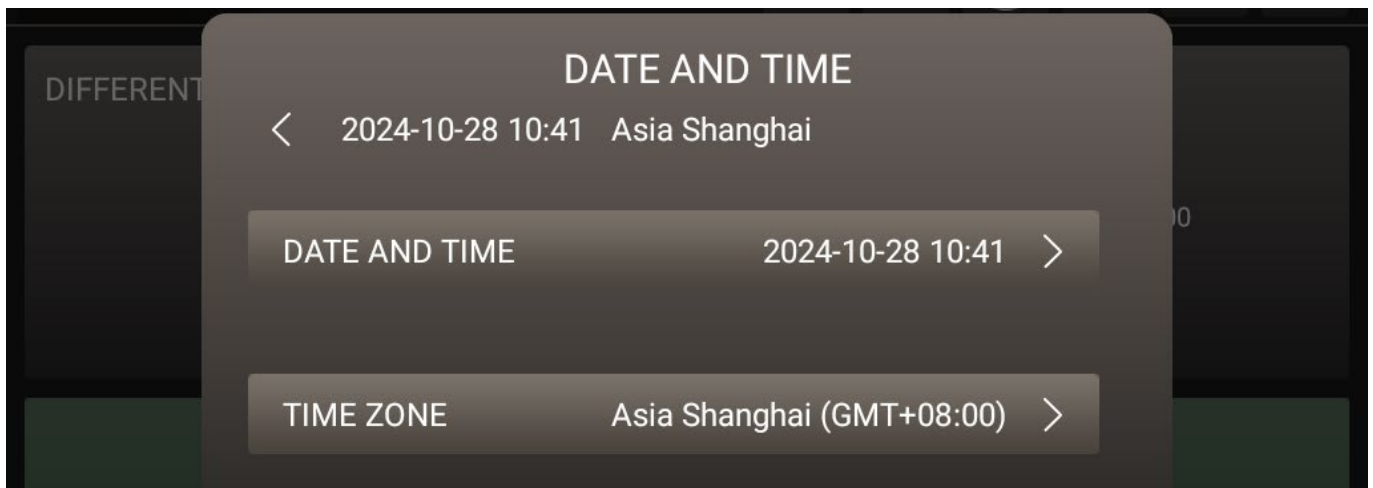


Fig. 12-9

2. **Language Setup (Fig. 12-10):**

- Choose the system's display language from the available options.

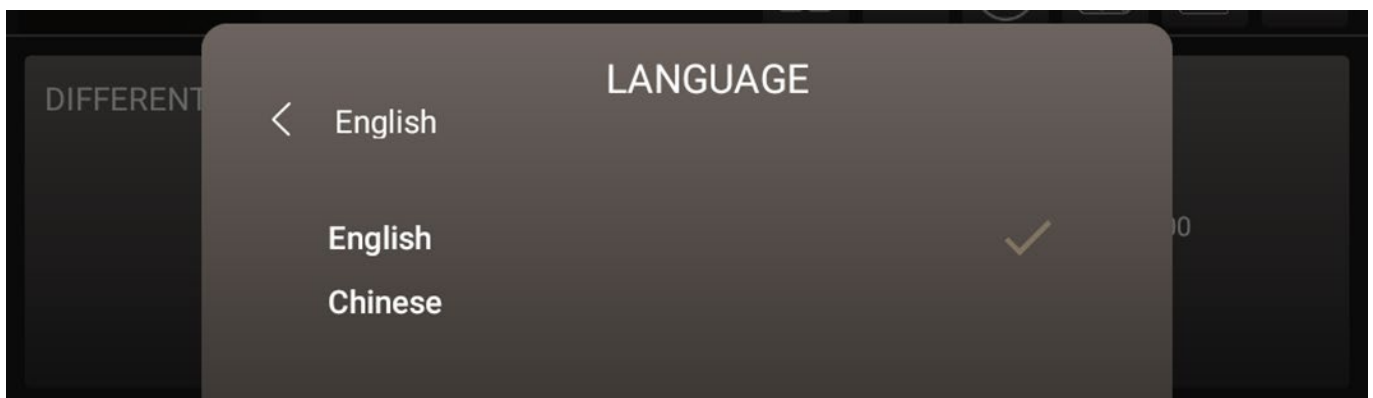


Fig. 12-10

3. **System Upgrade (Fig. 12-11):**

- As shown in **Fig. 12-11A**, a new system version is available, and you can choose to update the system.

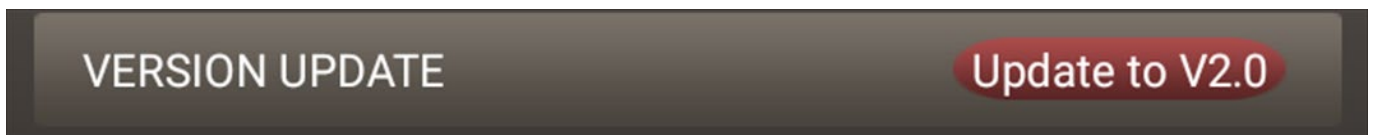


Fig. 12-11A

- When shown as in **Fig. 12-11B**, it indicates that the system is up to date and no upgrade is needed.



Fig. 12-11B

- When a system update is required, stop the machine operation before proceeding with the upgrade. Ensure the system remains powered on and connected to the network during the upgrade process, as indicated in **Fig.12-11C**.

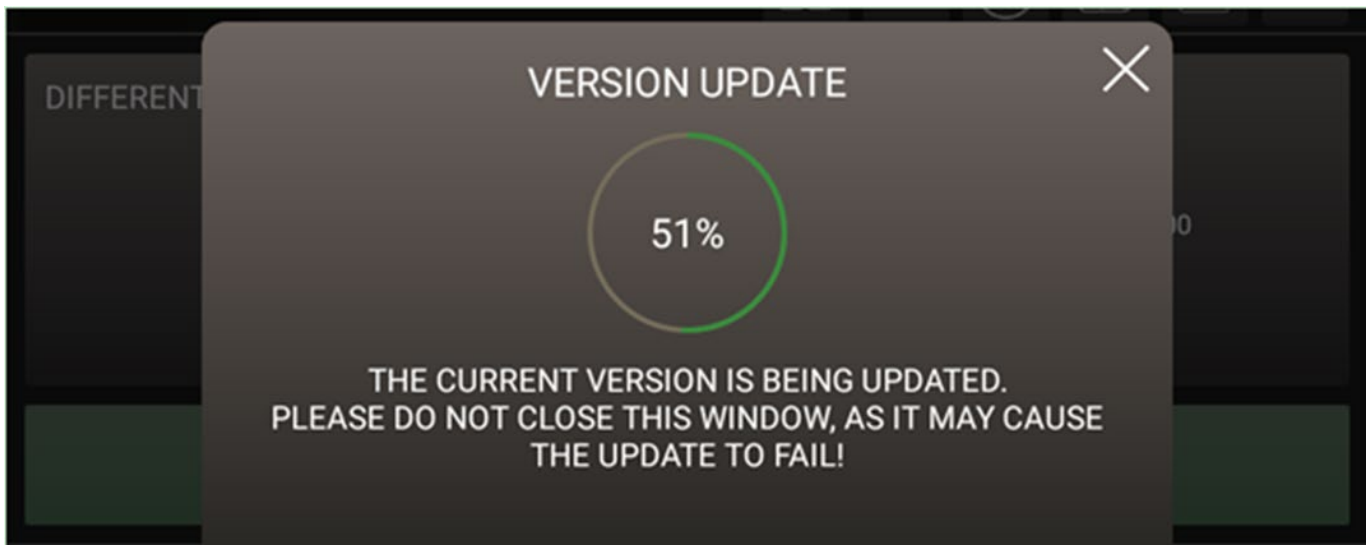


Fig. 12-11C

4. Network Connection (**Fig. 12-12**):

- Select the target WiFi from the current network list to connect.

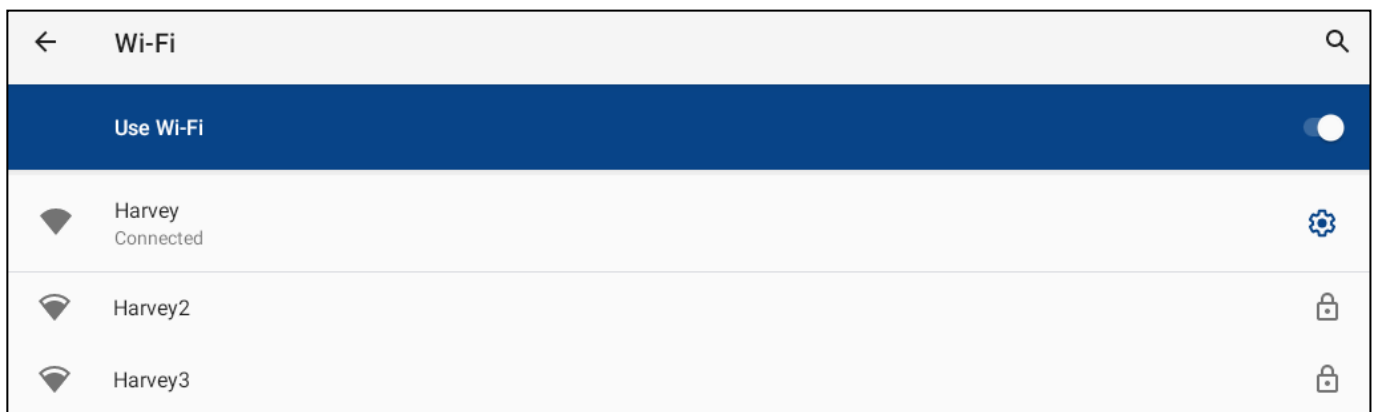


Fig. 12-12

5. Bluetooth Connection(**Fig. 12-13**):

- Pair the target device from the list of available Bluetooth connections.



Fig. 12-13

5.2 Instructions for Remote Control

The included remote control enables convenient operation of the dust processor by allowing the operator to start and stop the machine wirelessly. The remote communicates with the dust processor using a 315 MHz signal.

Usage Guidelines:

- Ensure there is a clear line of sight between the remote control and the dust processor for optimal functionality.
- Point the remote directly at the machine while operating.
- The remote control is designed for basic on/off functionality and should not be used as a substitute for direct supervision of the machine.

Important Note:

The remote control included with the unit has been pre-paired with the machine before leaving the factory. If the remote control needs to be replaced, follow these steps to re-pair it:

- Before operation, disconnect the power supply, open the electrical box cover plate of the G-800Pro dust processor (**Fig. 13-1**), to expose the receiver (**Fig. 13-2**). The electrical box of the G-700Pro is located on the side of the machine. The opening method is similar.
- Reconnect the power supply. The indicator light on the receiver circuit board (**Fig. 13-2**) will remain lit. Pair the remote control as follows:
 1. Press and hold the **Pairing Button** on the receiver. The **indicator light** will begin to flash, accompanied by an **alarm sound**.
 2. Press the **Pairing Button** on the receiver **once**, then immediately press the **"OFF"** button on the remote control. The receiver will emit a **confirmation tone**.
 3. Quickly **press the Pairing Button on the receiver twice consecutively**, then immediately press the **"ON"** button on the remote control. The receiver will emit a **confirmation tone** again.
 4. The pairing process is now successfully completed.
- Turn off the power supply, and then re-close the electrical cover plate of the dust processor.

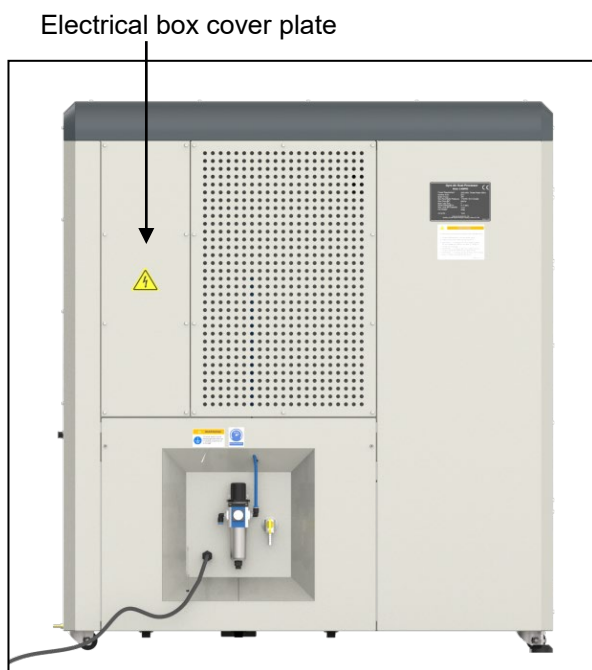


Fig. 13-1

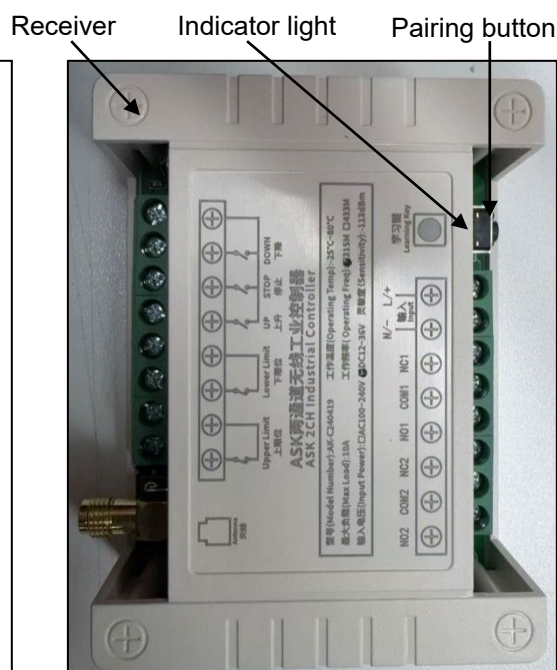


Fig. 13-2

5.3 Linkage Description

This machine currently supports only wired linkage. By modifying the electrical box, the start and stop of the dust source equipment will automatically be linked to the start and stop of the dust collector. For specific installation and setup instructions, please contact Harvey customer service team.

Note:

If manual operation is performed in linkage mode, the linkage mode will be deactivated. The linkage mode icon A3 (**Fig. 12-1**) will flash to indicate this. Press this icon manually to restore linkage mode.

5.4 Use of Storage Box (Only For G-800Pro)

The right side of the machine features a convenient storage compartment, as shown in **Fig. 14**. To access the storage box:

1. Release the two toggle latches located on the storage box door.
2. Open the door to store or retrieve spare dust bags or other small accessories.

Maintenance Tip:

Keep the storage compartment clean and organized to ensure ease of access and prevent accidental damage to stored items.

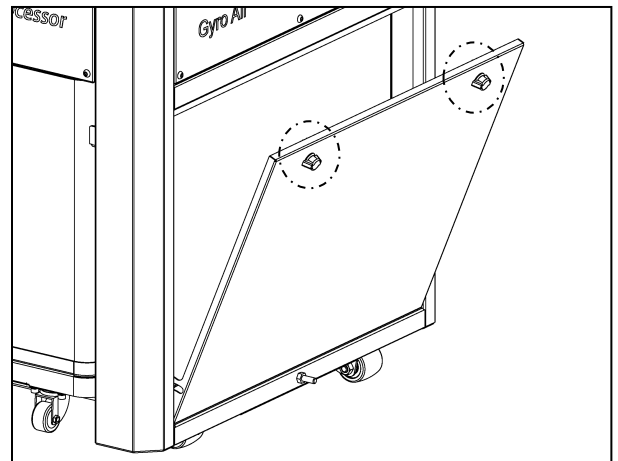


Fig. 14

5.5 Use of Dust Bin

The dust bin is located at the front of the machine, as shown in **Fig. 15**. Follow these steps to empty it:

1. Release the locking handle to disengage the dust bin.
2. Pull the bin out of the machine cabinet.
3. Empty the bagged contents into a designated waste container.
4. Re-install or Replace the dust bin liner.
5. Slide the dust bin back into place, ensuring it is fully seated.
6. Secure the bin by locking the handle.

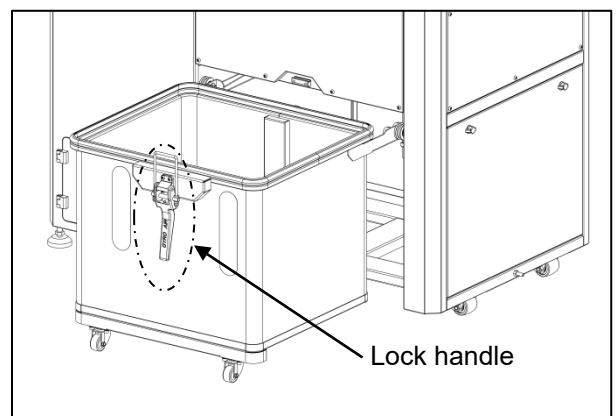


Fig. 15

5.6 Use of Dust Box

The dust box of G-800Pro is located on the front of the machine, while that of G-700Pro is on the side of the machine, as shown in **Fig. 16**. To empty the dust box:

1. Open the Dust Box panel (this operation is only required for G-800Pro).
2. Releasing the lock handle and pull the dust box out of the cabinet.
3. Empty the contents into a waste container or use a vacuum dust collector for finer dust.
4. Before reinstalling, wipe down any residual dust inside the cabinet to maintain cleanliness.

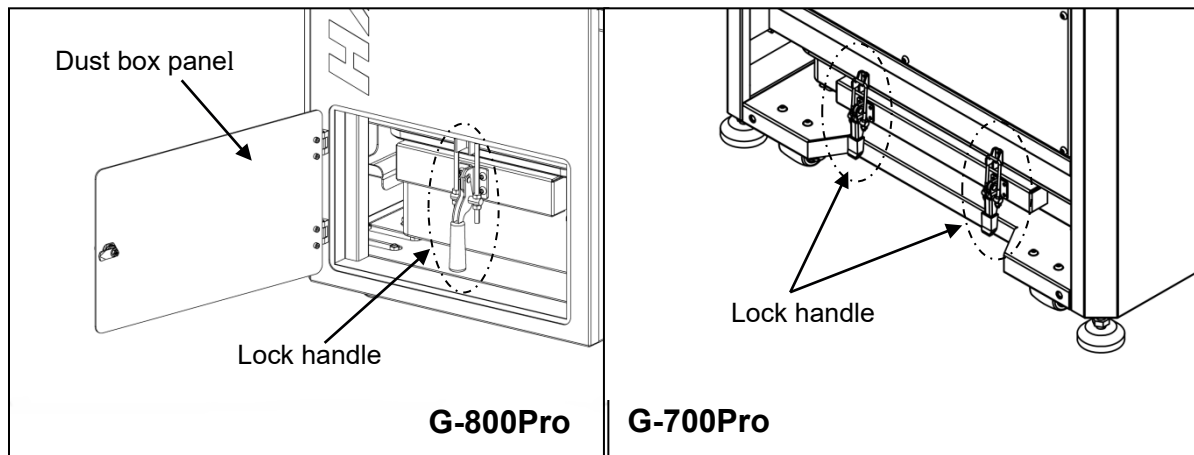


Fig. 16

Important:

After emptying, ensure the dust box is securely reinstalled and the lock handle is engaged to prevent air leaks during operation.

Every time you clean the dust bin, be sure to also clean the dust box at the same time. This is to prevent the dust collection box from being too full of dust, which could pose a danger.

6. Maintenance

Important Safety Instructions

- Always power off the machine before performing any maintenance tasks.
- Ensure all moving parts have completely stopped to avoid serious injury.
- Disconnect the air supply before cleaning, repairing, or maintaining the machine.

6.1 Cleaning the Dust Bin *(Fig.15)*

Regular maintenance of the dust bin is essential for optimal performance. Follow these guidelines:

- **When to Clean:**
 - For non-metal materials, clean the dust bin when it is 2/3 full.
 - For metal dust or small particles (e.g., fine shavings), clean the dust bin when it is half full.

Note: It is strictly prohibited to use this machine to collect combustible or hazardous metal materials, such as aluminum, magnesium, or other highly reactive metals, due to fire or explosion risks. Always consult your safety guidelines or a professional when handling such materials.

- **Schedule:**
 - After one week of regular use, establish a cleaning schedule based on the type of materials being collected and the amount of usage.
- **Procedure:**
 - Remove the dust bin and empty its contents into a waste container.
 - Wipe the sealing strips clean with a cloth to ensure proper sealing and prevent leaks.

6.2 Cleaning the Dust Box *(Fig.16)*

The dust box should be monitored and cleaned regularly to maintain machine performance.

- **When to Clean:**
 - For non-metal materials, clean the dust box when it is 2/3 full.
 - For metal materials, clean the dust box when it is half full.
- **Schedule:**
 - After the first week of operation, assess the amount of dust collected and set a cleaning schedule based on your specific usage. This could be based on time intervals or the number of pieces processed.
- **Procedure:**
 - Open the dust box panel and release the lock handle.
 - Pull out the dust box, empty its contents into a waste container, and clean any spillover dust inside the cabinet.
 - Reinstall the dust box securely and lock it in place.

6.3 Cleaning or Replacing the Filters *(Fig.17)*

The filters play a crucial role in maintaining airflow and efficiency. Regular cleaning or replacement is necessary to ensure proper performance.

Cleaning the Filters

- **When to Clean:**

1. Clean the filters when the pressure drop alarm sounds.
2. Use the delayed dust cleaning function daily at the end of each workday for routine maintenance.

- **Procedure:**

1. Refer to Chapter 5.1.3 for instructions on initiating delayed dust cleaning.
2. If additional cleaning is required, turn the locking knob, unscrew and remove the filters, and use compressed air to clean the dust on the filter's exterior (**Fig. 17**).
3. If cleaning does not resolve the pressure drop issue, the filter may need to be replaced.

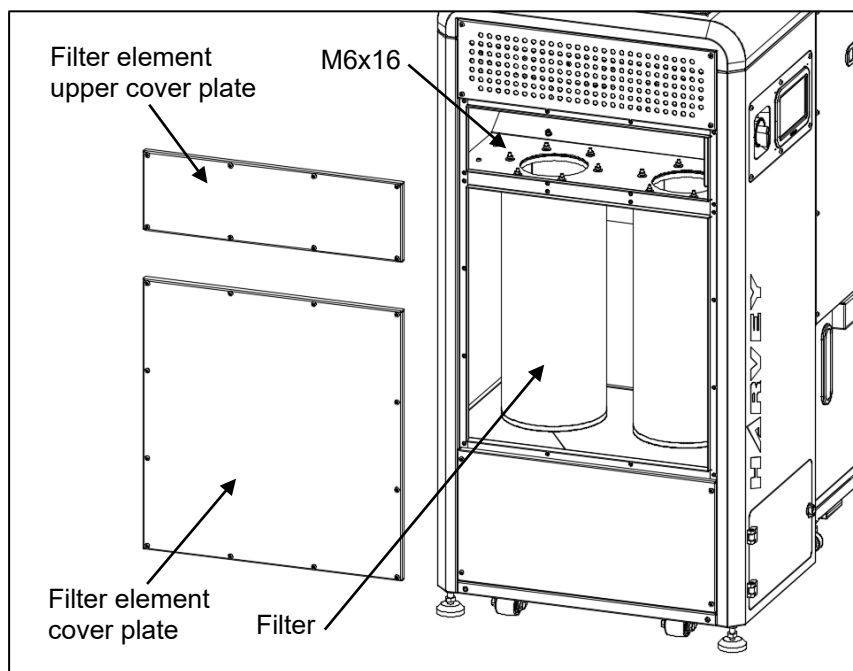


Fig. 17

Replacing the Filters

If cleaning fails to restore performance, follow these steps to replace the filter:

1. Open the upper cover plate of the filter box and the cover plate of the filter box.
2. Open the filter box door and remove the six (6) M6x16 screws holding the filter in place.
3. Remove the old filter and install a new filter, ensuring it matches the manufacturer's specifications.
4. Reinstall the M6x16 screws, close the filter box door panel, and lock the latch securely.

Important Notes:

- Only use filters provided or approved by the manufacturer to maintain performance and safety standards.
- The lifespan of a filter is approximately 1000-3000 hours, depending on the working environment, including factors such as:
 - The type of dust material collected.
 - The density and particle size of the dust.
 - Frequency and duration of machine operation.
- Regularly monitor filter performance and adjust cleaning or replacement schedules accordingly.

6.4 Equipment Inspection Requirements

- **Purpose**

Regular inspections ensure operational safety and maintain dust collection efficiency. This section defines pre-operation and runtime inspection protocols for user-level maintenance.

- **Inspection Types & Frequency**

Phase	Inspection Scope	Frequency
Pre-Operation	Safety interlocks, power supply, dust bin level, sealing integrity	Before each startup
Runtime	Abnormal noise/vibration, temperature rise, pressure drop, dust leakage	Every 2 operating hours

- **Detailed Inspection Items**

6.4.1 Pre-Operation Inspection (Table 6.4a)

Inspection Item	Method	Acceptance Criteria	Responsible Role
Power Supply & Grounding	Visual check + plug wobble test	No loose/damaged plugs; intact ground wire	Operator
Emergency Stop Button	Functional test	Immediate power cutoff	Operator
Dust Bin Level	View sight glass	≤50% full (metal dust) or ≤67% full (non-metal)	Operator
Sealing Strips	Visual inspection	No cracks/deformation; flush with surface	Operator
Moving Parts	Manual rotation	No obstruction or foreign material	Operator

6.4.2 Runtime Inspection (Table 6.4b)

Inspection Item	Method	Acceptance Criteria	Corrective Action
Abnormal Noise	Auditory detection	No metallic grinding/impact sounds	Stop machine; check drive components
Motor Temperature	Infrared thermometer/hand touch	$\leq 80^{\circ}\text{C}$ (motor); $\leq 85^{\circ}\text{C}$ (bearings)	Cool down + ventilate area
Pressure Drop	Control panel monitoring	≤ 1500 Pa (no alarm triggered)	Initiate auto-clean or manual filter replacement
Dust Leakage	Visual check at joints	No escaping dust	Tighten seals immediately
Vibration Amplitude	Hand touch motor housing	≤ 2 mm displacement	Check anchor bolt tightness

• Inspection Tools & Safety

- Required Tools: Infrared thermometer
- Safety Protocols:
 - LOCKOUT before inspection: Follow Section 6.3 procedures for electrical components.
 - Prohibited during operation: Do not reach into guards or clean belts without power disconnect.
 - Metal dust environments: Use antistatic gloves + copper-alloy tools.

•Notes for Lifetime Management

- Filter Replacement Threshold: Trigger replacement if pressure alarms recur within <100 operating hours for 3 consecutive cycles.
- Bearing Maintenance: Upgrade grease temperature rating if abnormal noise occurs ≥ 2 times/month.
- Dynamic Adjustment:
 - High-frequency use (>4h/day): Add mid-shift inspection every 2 hours.
 - Low-frequency use (<1h/day): Pre-op inspection only suffices.

Important:

Requirements for the training of personnel and reference, that the extraction systems shall be operated only by trained personnel under the intended operating conditions.

6.5 Power Cord Usage and Storage Instructions

Power Cord Usage Precautions

- **Pre-Use Inspection:** Before each use, inspect the power cord for signs of wear, cracks, crushing, or other damage. If any damage is found, stop using the equipment immediately and contact an authorized service center for replacement.
- **Proper Plug Insertion/Removal:** When plugging in or unplugging the power cord, always grasp the plug body firmly. Never pull on the cord itself, as this may damage internal wires or insulation.
- **Avoid Sharp Bends:** During operation, avoid bending the cord sharply or draping it over sharp edges. Keep the cord naturally uncoiled and avoid kinks or knots.
- **Keep Away from Heat Sources:** Ensure the power cord is kept away from hot surfaces, sharp objects, and moving parts. Operating temperature range: -20° C to +60° C.

Appliance Storage Method

- **Clean Before Storage:** After use, clean the external surfaces and empty the dust bin. Ensure the equipment is completely dry before storage.
- **Power Cord Coiling:** Coil the power cord loosely; avoid tight bends or knots. Use a cord clip or a hook to secure the cord, preventing it from being stepped on or pinched.
- **Storage Environment:** Store the equipment in a dry, well-ventilated indoor area, away from direct sunlight and damp conditions. Ideal storage temperature: 5° C to 40° C, relative humidity ≤85%.
- **Long-Term Storage (Over 3 Months):**
 - Empty the dust bin and clean the filter(s).
 - Turn off the main power switch and disconnect the power plug.
 - Cover the equipment with a dust cover or breathable bag.
 - Perform periodic checks (recommended monthly).
- **Storage Location:** Place the equipment on a stable, dry surface. Do not stack heavy items on top. Keep the stored equipment out of reach of children and pets.

Emergency Handling

- If the power cord becomes hot, smokes, or emits a burning smell:
- Turn off the equipment's main power switch immediately.
- Unplug the power cord from the outlet.
- Discontinue use of the equipment.
- Contact authorized service for inspection.

WARNING

WARNING: Using a damaged power cord or improper storage practices can lead to fire, electric shock, or equipment damage. Always follow these instructions carefully.

7. Troubleshooting

7.1 Dust Bin Full & Pressure Drop Alarm

When specific alarms occur, the Start/Stop button will illuminate red to indicate an issue. Follow these troubleshooting steps:

- **Dust Bin Full Alarm:**
 - The machine will stop automatically 15 minutes after the alarm is triggered.
 - **Solution:** Empty the dust bin promptly to avoid operational downtime.

Important Notes: When the sensor above the dust bin becomes covered with dust, a dust bin full alarm may also occur. In this case, simply pull out the dust bin and clean the dust off the sensor.

- **Filter Pressure Drop Alarm:**
 - The machine will attempt to clean the filter automatically if it is in the running state and the dust cleaning mode is set to Automatic Dust Cleaning.
 - **Solution:** If the filter pressure does not drop, please refer to Section 6.3 - Cleaning or Replacing the Filters for detailed instructions on resolving potential filter clogging issues.

Note: The lifespan of the sealing strip is generally no more than 3 years. Please regularly check the condition of the sealing strip. If cracks, fractures, or hardening occur, please replace it promptly.

7.2 Variable Frequency Drive (VFD) Faults

If a variable frequency drive (VFD) converter failure occurs, the machine will not start. Common issues include overcurrent, voltage shortage, and overvoltage. In such cases, the machine will stop, and fault code details will be displayed on the touch screen.

General Troubleshooting Steps:

1. Turn off the power supply and wait at least 5 minutes before restarting.
 - This allows the VFD's capacitance to discharge any residual dangerous voltage and shut off completely.
2. Restart the machine after the waiting period. In most cases, this resolves the issue by clearing any fault code that may have occurred.
3. If the fault persists, contact the Harvey Customer Support for assistance.

Important Notes: The Variable Frequency Drive (VFD) generates high-frequency leakage current. To prevent circuit breaker tripping, it is recommended to use a Type B residual current circuit breaker (RCCB) specifically designed for the variable frequency drive.

WARNING

WARNING: Do not attempt to maintain or repair the internal components of the VFD converter. This must only be done by qualified service personnel.

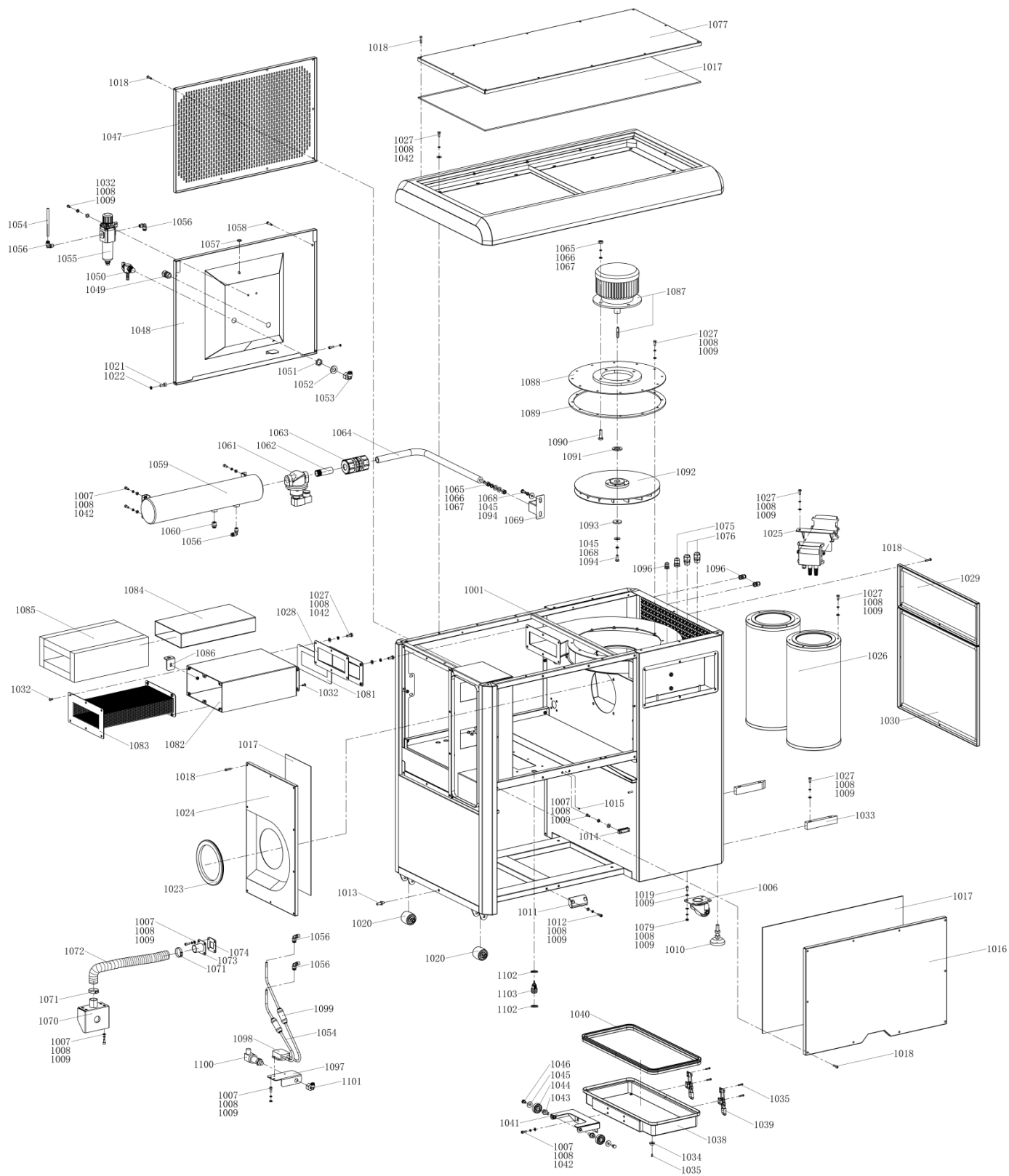
Common Error Codes and Remedies

Error code	Trouble Description	Remedy
E4、E5、E6	Over current	Reduce the cord length to less than 15m.
		Check the motor cord and motor for a short circuit or incorrect grounding.
		Check if the motor is overloaded or stalled, suggest reducing the speed.
E7、E8、E9	Over voltage	Check the power supply voltage. The allowed voltage range is 220-240V
E10	Voltage shortage	Check the power supply voltage. The allowed voltage range is 220-240V
E12	Converter overheated	Check if the converter fan is working.
		Check if the motor is overloaded or stalled, suggest reducing the speed.
E11	Motor overheated	Check if the motor is overloaded or stalled, suggest reducing the speed.

For any unresolved issues or additional assistance, contact Harvey Customer Support. Proper troubleshooting ensures continued efficiency and longevity of the machine.

8. Exploded View and Parts List (G-700Pro)

G-700Pro Cabinet Assembly Exploded View



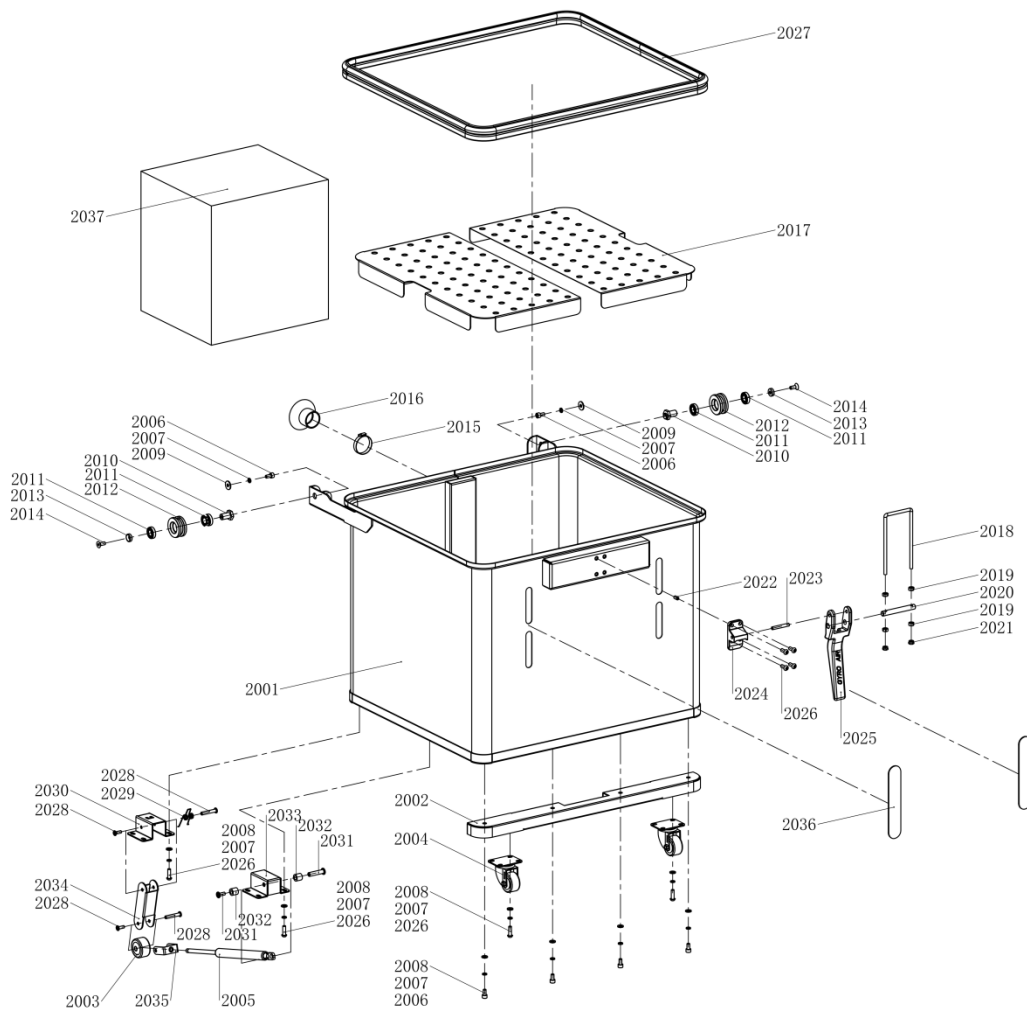
G-700Pro Cabinet Assembly Part List

REF	DESCRIPTION	QTY	REF	DESCRIPTION	QTY
1001	Box Weld Assembly	1	1046	Hex Head Bolt M8x12	2
1006	Swivel Caster	2	1047	Rear Cover Plate	1
1007	Hex Socket Head Cap Screw M6x16	18	1048	Rear Lower Cover Plate	1
1008	Standard Spring Washer 6	86	1049	Cable Gland PG16	1
1009	Flat Washer Grade A 6	62	1050	Right-Angle Valve	1
1010	Support Foot	2	1051	Imperial Thin Nut	1
1011	Bumper Block	1	1052	Nylon Spacer	1
1012	Hex Socket Head Cap Screw M6x20	2	1053	Gas Pipe Fitting PLF804	1
1013	Grounding Screw	1	1054	Gas Pipe (3.5m)	3.5m
1014	Lock Latch	1	1055	Air Source Processing Element	1
1015	Hex Socket Set Screw with Cone Point M4x6	1	1056	Gas Pipe Fitting PL802	5
1016	Front Cover Plate	1	1057	Double-Sided Rubber Grommet	1
1017	Soundproof Damping Plate	1.6m ²	1058	Hex Socket Button Head Screw M6x30	2
1018	Hex Socket Button Head Screw M6x25	55	1059	Airbag	1
1019	Hex Socket Button Head Screw M6x16	8	1060	Gas Pipe Fitting PC803	1
1020	2-inch Single Wheel	2	1061	Electromagnetic Pulse Valve	1
1021	Hex Socket Shoulder Screw	2	1062	Connecting Pipe	1
1022	Nylon Bushing	2	1063	Wall Pass-Through Connector	1
1023	Rubber Grommet	1	1064	Blow Pipe	1
1024	Right Cover Plate	1	1065	Hex Nut Type 1 M10	6
1025	Dust Concentration Sensor Bracket	1	1066	Standard Spring Washer 10	5
1026	Filter	2	1067	Flat Washer Grade A 10	6
1027	Hex Head Bolt M6x20	46	1068	Standard Spring Washer 8	3
1028	Fan Side Cover Plate	1	1069	Pulse Tube Support	1
1029	Upper Filter Box Cover Plate	1	1070	Negative Pressure Adsorption Plate	1
1030	Filter Box Cover Plate	1	1071	Bellows Fixing Clip	2
1032	Hex Socket Button Head Screw M6x12	12	1072	Bellows	0.7m
1033	Dust Collection Box Guide Block	2	1073	Negative Pressure Suction Port	1
1034	Dust Collection Box Pad Block	4	1074	Negative Pressure Sealing Gasket	1
1035	Hex Socket Head Cap Screw M4x10	12	1075	Cable Gland PG11	2
1038	Dust Collection Box	1	1076	Cable Gland PG13.5	5
1039	Lock Handle	2	1077	Top Cover Plate	1
1040	Self-Gripping Sealing Strip	1.6m	1079	Hex Nut Type 1 M6	8
1041	Dust Collection Box Bracket	1	1080	Top Guard Cover	1
1042	Large Washer Grade A 6	34	1081	EVA Sealing Gasket	0.6m
1043	Roller Shaft	2	1082	Silencer Outer Shell	1
1044	Deep Groove Ball Bearing	2	1083	Silencer Core	1
1045	Large Washer Grade A 8	5	1084	Fiberglass Fireproof Cloth	0.3m ²

G-700Pro Cabinet Assembly Part List (Continued)

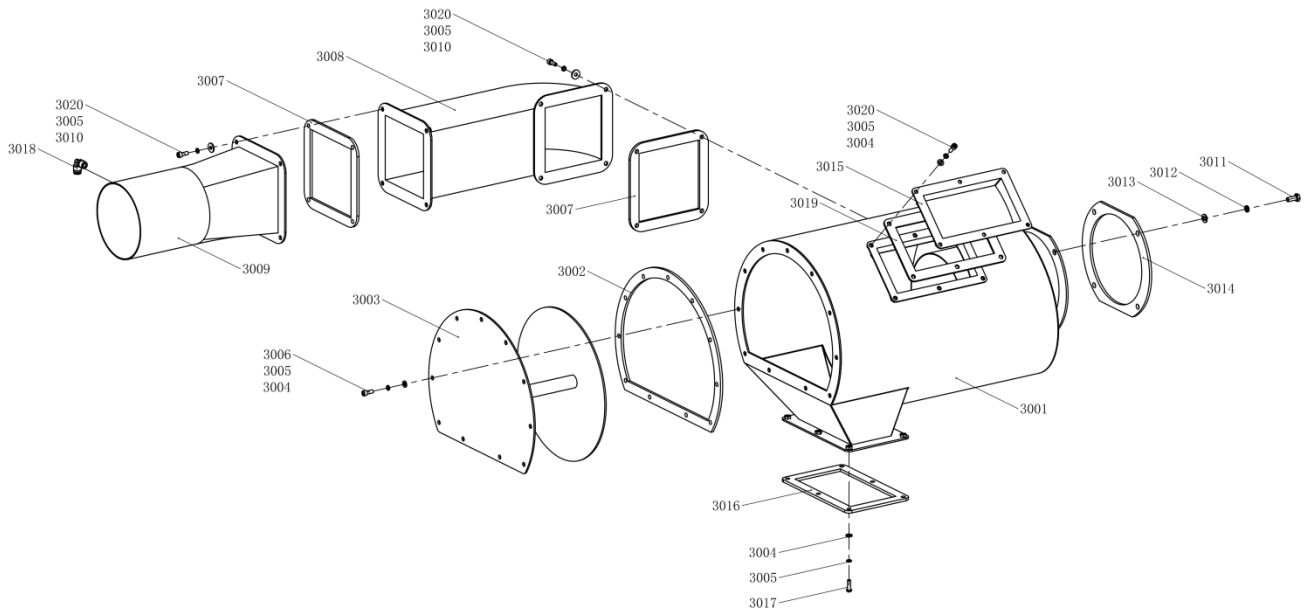
REF	DESCRIPTION	QTY	REF	DESCRIPTION	QTY
1085	Sound-Absorbing Cotton	0.3m ²	1093	Fan Fixing Shaft End Cover	1
1086	Silencer Fixing Bracket	1	1094	Hex Head Bolt M8x20	3
1087	Motor (with Key)	1	1096	Cable Gland PG7	1
1088	Fan Mounting Plate	1	1097	Differential Pressure Transmitter Bracket	1
1089	Fan Sealing Gasket	1	1098	Differential Pressure Transmitter	1
1090	Hex Head Bolt M10x35	4	1099	Small Pipe-type Vacuum Filter	2
1091	Spacer	1	1102	Rubber Pad	2
1092	Fan Blade	1	1103	Photoelectric Switch	1

G-700Pro Dust Bin Assembly Exploded View



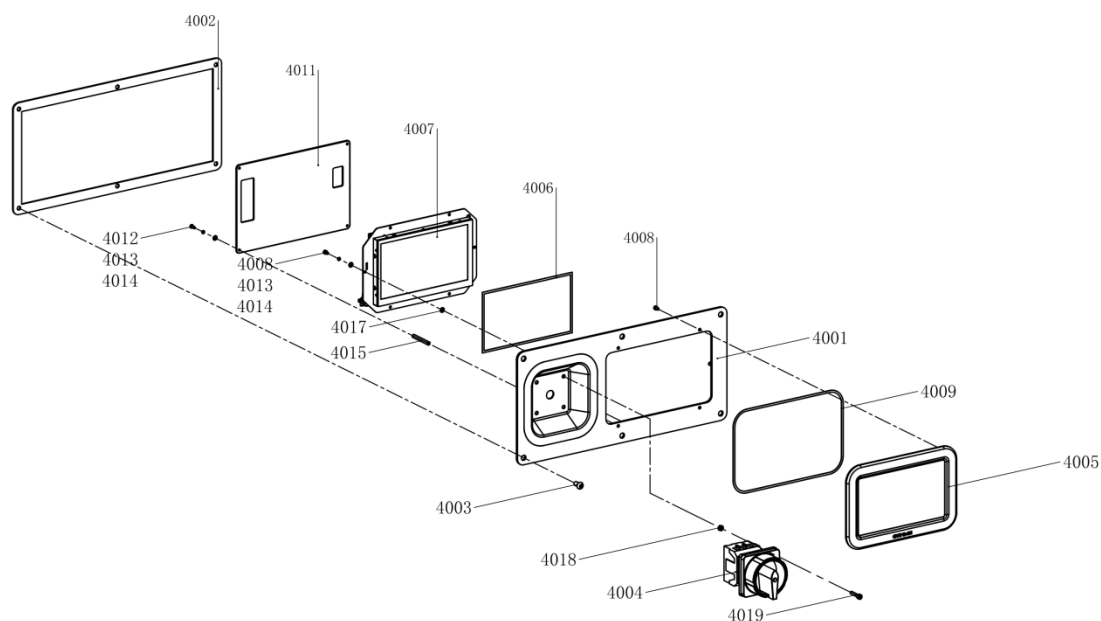
REF	DESCRIPTION	QTY	REF	DESCRIPTION	QTY
2001	Dust Collection Box	1	2020	Rotary Shaft	1
2002	Caster Mounting Plate	1	2021	Anti-Retreat Nut M6	2
2003	Single Wheel	1	2022	Hex Socket Set Screw with Flat End M5x10	1
2004	Swivel Caster	2	2023	Locking Pin	1
2005	Gas Spring	1	2024	Locking Block	1
2006	Hex Socket Head Cap Screw M6x12	22	2025	Lock Handle	1
2007	Standard Spring Washer 6	22	2026	Hex Socket Head Screw M6x16	20
2008	Flat Washer Grade A 6	20	2027	Self-Gripping Sealing Strip	2.5m
2009	Large Washer Grade A 6	2	2028	Locking Screw M5x35-φ6	2
2010	Dust Collection Box Roller Shaft	2	2029	Torsion Spring	1
2011	Rolling Bearing	4	2030	Rear Fixed Seat	1
2012	Dust Collection Box Roller	2	2031	Locking Screw M6x35-φ8	1
2013	Locking Washer	2	2032	Nylon Hollow Column	2
2014	Hex Socket Countersunk Head Screw M6x16	2	2033	Front Fixed Seat	1
2015	Bellows Fixing Clip	1	2034	Swing Arm	1
2016	Negative Pressure Silicone Ring	1	2035	Gas Spring Bracket	1
2017	Dust Box Base Plate	1	2036	Transparent Window	2
2018	U-Bolt	1	2037	Dust Collection Bag	1
2019	Hex Nut Type 1 M6	4			

G-700Pro Separator Assembly Exploded View



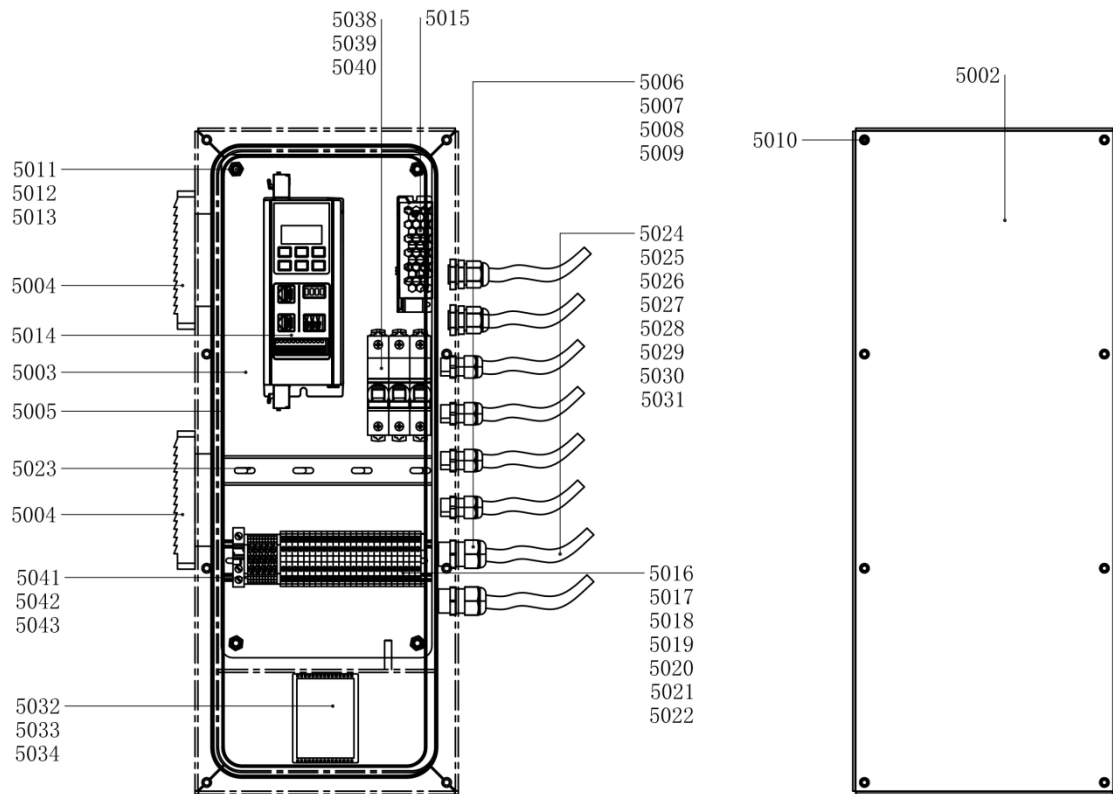
REF	DESCRIPTION	QTY	REF	DESCRIPTION	QTY
3001	Separator Weld Assembly	1	3011	Hex Head Bolt M8x20	4
3002	Seal Gasket 1	1	3012	Standard Spring Washer 8	4
3003	Separation Core Weld Assembly	1	3013	Large Washer Grade A 8	4
3004	Flat Washer Grade A 6	23	3014	Seal Gasket 3	1
3005	Standard Spring Washer 6	31	3015	Separator Inspection Port	1
3006	Hex Head Bolt M6x16	11	3016	Seal Gasket 2	1
3007	Seal Gasket 4	2	3017	Hex Socket Button Head Screw M6x20	6
3008	Transition Elbow	1	3018	Gas Pipe Fitting PL802	1
3009	Dust Inlet	1	3019	Seal Gasket 5	1
3010	Large Washer Grade A 6	8	3020	Hexagonal Cylindrical Head Screw M6x20	14

G-700Pro Display Screen Assembly Exploded View



REF	DESCRIPTION	QTY	REF	DESCRIPTION	QTY
4001	Switch Panel	1	4011	Transparent Protection Plate	1
4002	Switch Panel Seal Gasket	1	4012	Hex Socket Button Head Screw M3x8	4
4003	Cylindrical Head Screw M6x12	6	4013	Standard Spring Washer 3	10
4004	Isolation Switch	1	4014	Flat Washer Grade A 3	10
4005	Display Screen Housing	1	4015	Copper Standoff M3x40+3	4
4006	Sealing Strip (0.6m)	0.6m	4017	Thin Washer	6
4007	Touch Screen (with Circuit Board)	1	4018	Hex Nut Type 1 M4	4
4008	Hex Socket Head Cap Screw M3x5	10	4019	Hex Socket Head Cap Screw M4x20	4
4009	Seal Gasket	0.6m			

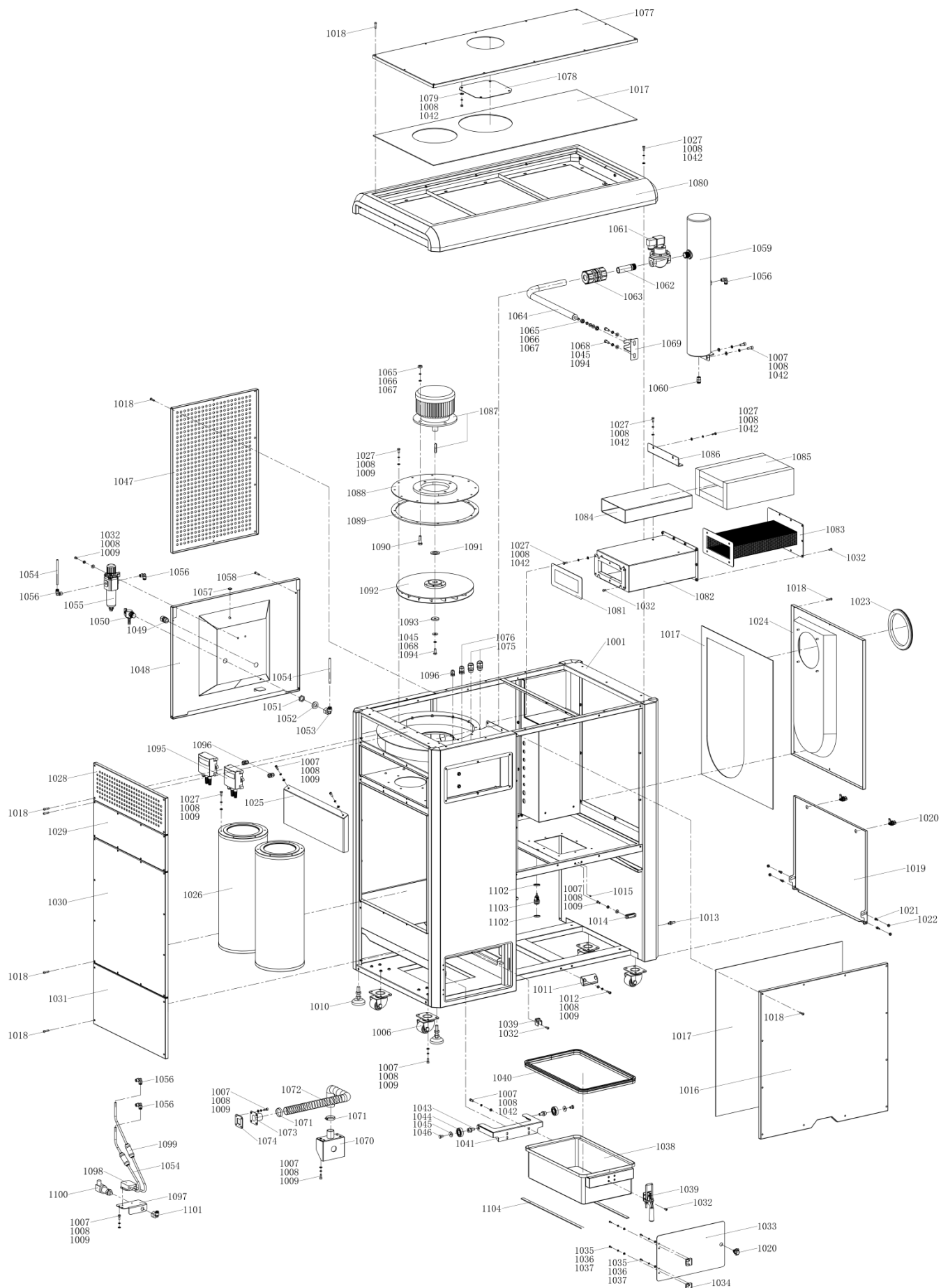
G-700Pro Electric box Exploded View



REF	DESCRIPTION	QTY	REF	DESCRIPTION	QTY
5002	Electrical Box Cover Plate	1	5022	Guide Rail	0.6m
5003	Electrical Installation Plate	1	5023	Wire Slot	1m
5004	Heat Vent	2	5024	Single-Core Wire	10m
5005	Self-Gripping Sealing Strip	1.4m	5025	Single-Core Wire	2m
5006	Cable Gland PG13.5	2	5026	Single-Core Wire	0.8m
5007	Cable Gland PG 9	3	5027	Android Screen Cable	2m
5008	Cable Gland PG11	1	5028	Power Cable	5m
5009	Cable gland PG7	2	5029	Motor Cable	2m
5010	Hex Socket Button Head Screw M6x25	4	5030	Differential Pressure Transmitter Cable	2m
5011	Hex Socket Head Cap Screw M6x16	4	5031	Pulse Valve Cable	3m
5012	Flat Washer Grade A 6	4	5032	Wireless Receiver	1
5013	Standard Spring Washer 6	4	5033	Wireless Receiver Label	1
5014	Inverter	1	5034	3M Double-Sided Tape	1
5015	Switching Power Supply	1	5035	Remote Control	2
5016	Terminal	20	5036	Remote Control Label	2
5017	Terminal (Blue)	3	5037	Antenna	1
5018	Terminal (Yellow-Green)	2	5041	Fuse 500mA	2
5019	End Plate	7	5042	Fuse 1A	1
5020	Terminal Fixer	2	5043	Fuse 2A	2
5021	Short Circuit Bar	1	5044	Fuse terminal	5

9. Exploded View and Parts List (G-800Pro)

G-800Pro Cabinet Assembly Exploded View



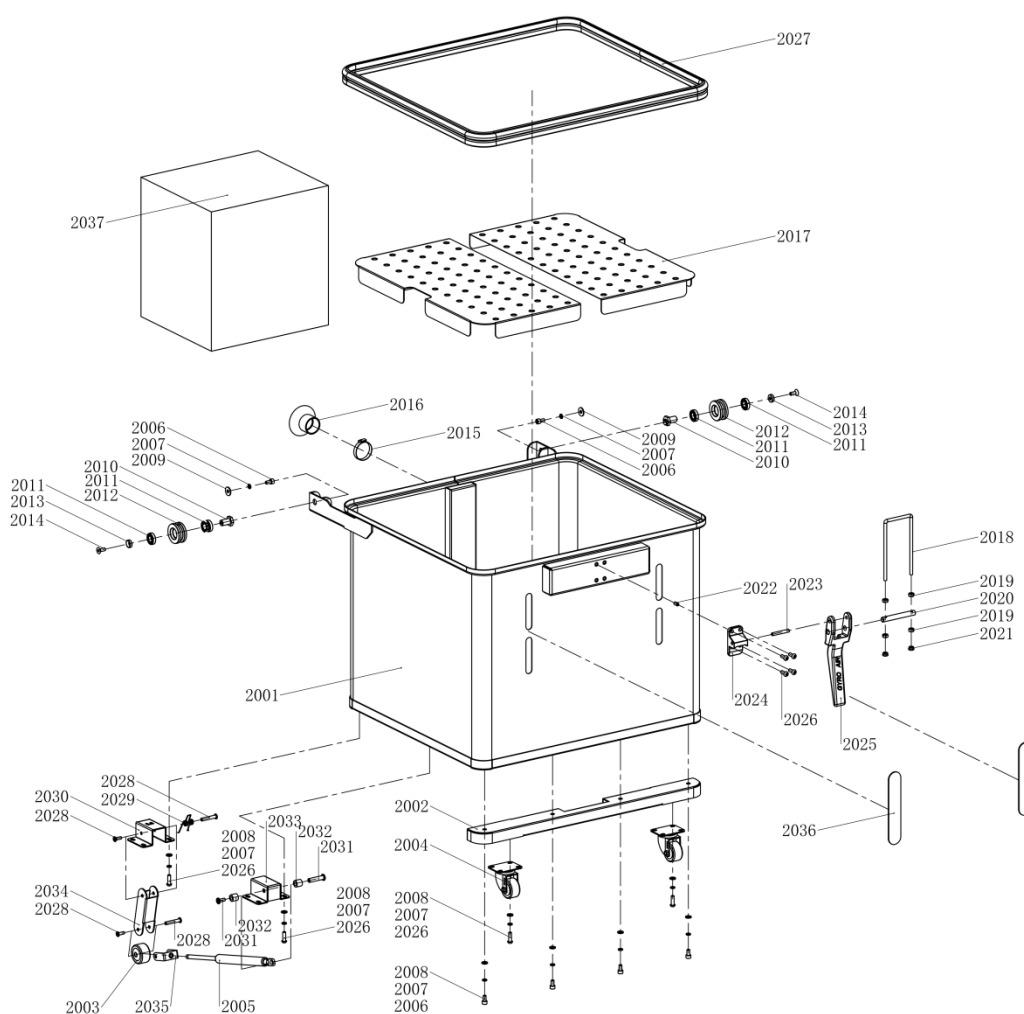
G-800Pro Cabinet Assembly Part List

REF	DESCRIPTION	QTY	REF	DESCRIPTION	QTY
1001	Box Weld Assembly	1	1043	Roller Shaft	2
1006	Swivel Caster	4	1044	Deep Groove Ball Bearing	2
1007	Hex Socket Head Cap Screw M6x16	36	1045	Large Washer Grade A 8	5
1008	Standard Spring Washer 6	90	1046	Hex Head Bolt M8x12	2
1009	Flat Washer Grade A 6	58	1047	Rear Cover Plate	1
1010	Support Foot	2	1048	Rear Lower Cover Plate	1
1011	Bumper Block	1	1049	Cable Gland PG16	1
1012	Hex Socket Head Cap Screw M6x20	2	1050	Right-Angle Valve	1
1013	Grounding Screw	1	1051	Imperial Thin Nut	1
1014	Lock Latch	1	1052	Nylon Spacer	1
1015	Hex Socket Set Screw with Cone Point M4x6	1	1053	Gas Pipe Fitting PLF804	1
1016	Front Cover Plate	1	1054	Gas Pipe (3.5m)	3.5m
1017	Soundproof Damping Plate	1.6m ²	1055	Air Source Processing Element	1
1018	Hex Socket Button Head Screw M6x25	72	1056	Gas Pipe Fitting PL802	5
1019	Side Storage Box	1	1057	Double-Sided Rubber Grommet	1
1020	Cam Lock	3	1058	Hex Socket Button Head Screw M6x30	2
1021	Hex Socket Shoulder Screw	6	1059	Airbag	1
1022	Nylon Bushing	6	1060	Gas Pipe Fitting PC803	1
1023	Rubber Grommet	1	1061	Electromagnetic Pulse Valve	1
1024	Right Cover Plate	1	1062	Connecting Pipe	1
1025	Dust Blocking Plate	1	1063	Wall Pass-Through Connector	1
1026	Filter	2	1064	Blow Pipe	1
1027	Hex Head Bolt M6x20	46	1065	Hex Nut Type 1 M10	6
1028	Fan Side Cover Plate	1	1066	Standard Spring Washer 10	5
1029	Upper Filter Box Cover Plate	1	1067	Flat Washer Grade A 10	6
1030	Filter Box Cover Plate	1	1068	Standard Spring Washer 8	3
1031	Lower Filter Box Cover Plate	1	1069	Pulse Tube Support	1
1032	Hex Socket Button Head Screw M6x12	22	1070	Negative Pressure Adsorption Plate	1
1033	Dust Collection Box Cover Plate	1	1071	Bellows Fixing Clip	2
1034	Hinge	2	1072	Bellows	0.7m
1035	Hex Socket Head Cap Screw M4x10	8	1073	Negative Pressure Suction Port	1
1036	Standard Spring Washer 4	8	1074	Negative Pressure Sealing Gasket	1
1037	Flat Washer Grade A 4	8	1075	Cable Gland PG11	2
1038	Dust Collection Box	1	1076	Cable Gland PG13.5	5
1039	Lock Handle	1	1077	Top Cover Plate	1
1040	Self-Gripping Sealing Strip	1.6m	1078	Inlet Blind Plate	1
1041	Dust Collection Box Bracket	1	1079	Hex Nut Type 1 M6	4
1042	Large Washer Grade A 6	32	1080	Top Guard Cover	1

G-800Pro Cabinet Assembly Part List (Continued)

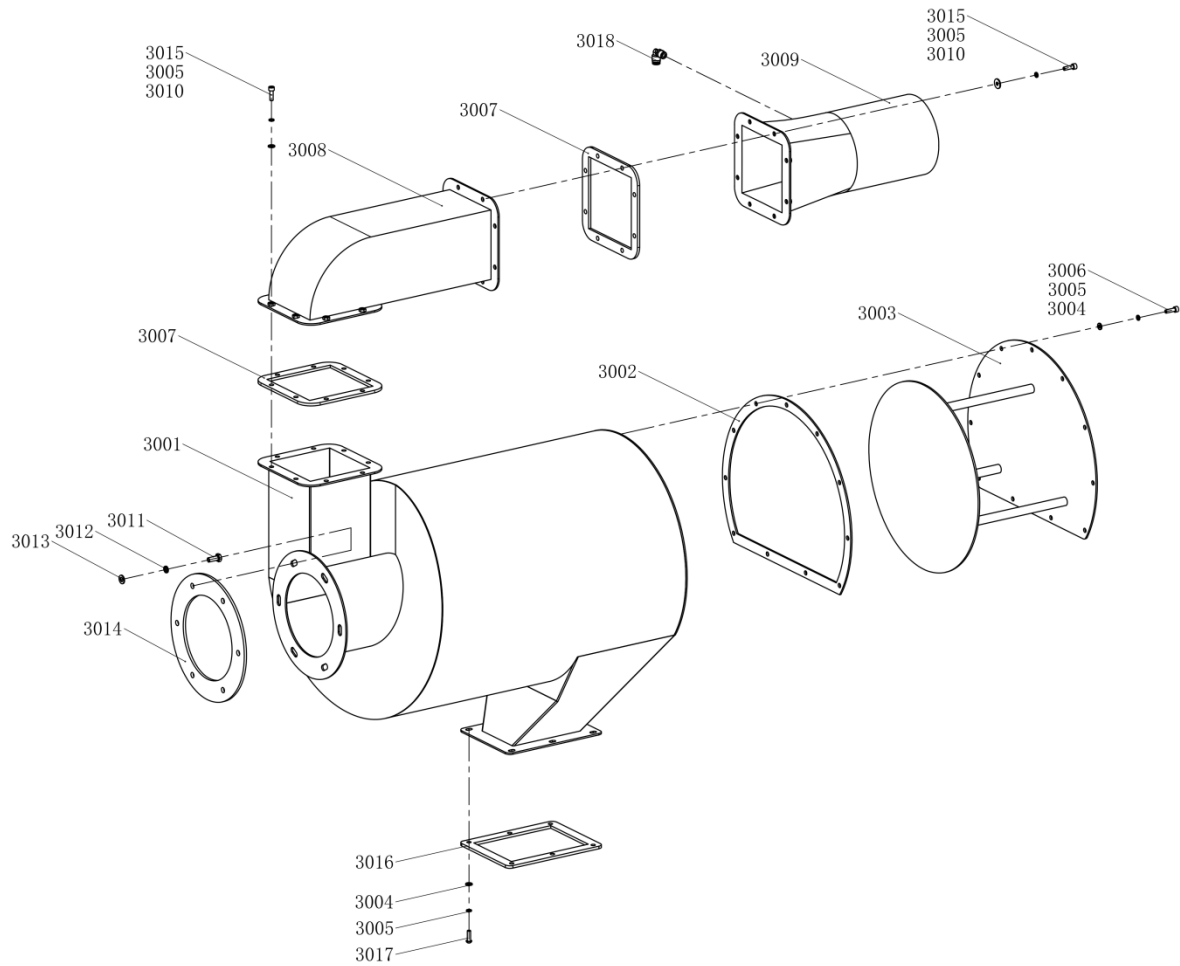
REF	DESCRIPTION	QTY	REF	DESCRIPTION	QTY
1081	EVA Sealing Gasket	0.6m	1092	Fan Blade	1
1082	Silencer Outer Shell	1	1093	Fan Fixing Shaft End Cover	1
1083	Silencer Core	1	1094	Hex Head Bolt M8x20	3
1084	Fiberglass Fireproof Cloth	0.3m ²	1096	Cable Gland PG7	2
1085	Sound-Absorbing Cotton	0.3m ²	1097	Differential Pressure Transmitter Bracket	1
1086	Silencer Fixing Bracket	1	1098	Differential Pressure Transmitter	1
1087	Motor (with Key)	1	1099	Small Pipe-type Vacuum Filter	2
1088	Fan Mounting Plate	1	1102	Rubber Pad	2
1089	Fan Sealing Gasket	1	1103	Photoelectric Switch	1
1090	Hex Head Bolt M10x35	4	1104	Nylon Strips	2
1091	Spacer	1			

G-800Pro Dust Bin Assembly Exploded View



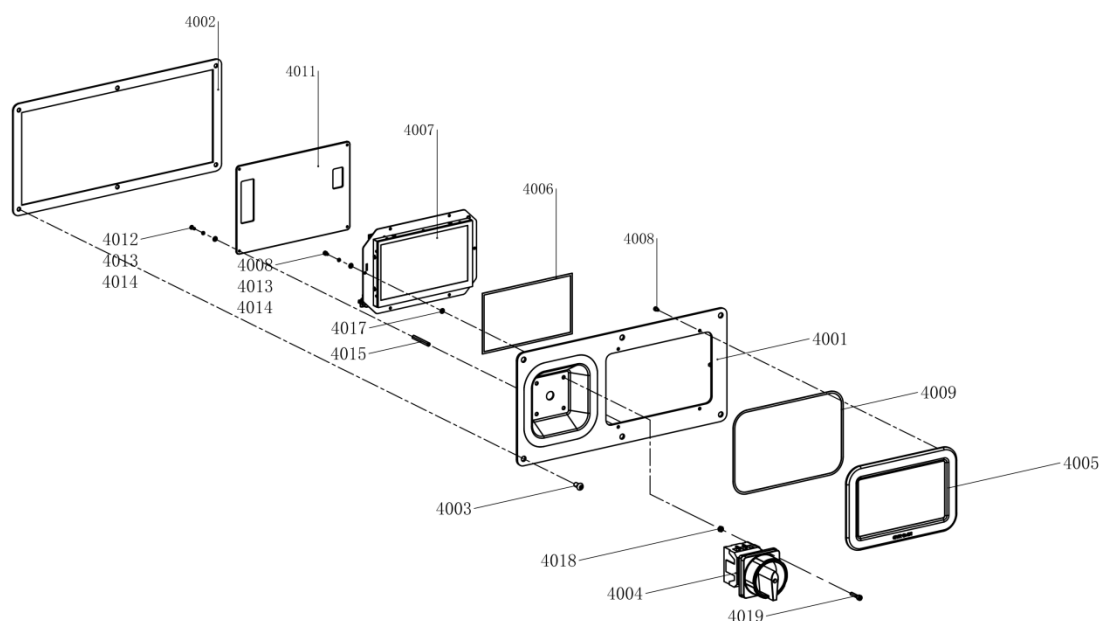
REF	DESCRIPTION	QTY	REF	DESCRIPTION	QTY
2001	Dust Collection Box	1	2020	Rotary Shaft	1
2002	Caster Mounting Plate	1	2021	Anti-Retreat Nut M6	2
2003	Single Wheel	1	2022	Hex Socket Set Screw with Flat End M5x10	1
2004	Swivel Caster	2	2023	Locking Pin	1
2005	Gas Spring	1	2024	Locking Block	1
2006	Hex Socket Head Cap Screw M6x12	22	2025	Lock Handle	1
2007	Standard Spring Washer 6	22	2026	Hex Socket Head Screw M6x16	20
2008	Flat Washer Grade A 6	20	2027	Self-Gripping Sealing Strip	2.5m
2009	Large Washer Grade A 6	2	2028	Locking Screw M5x35-φ6	2
2010	Dust Collection Box Roller Shaft	2	2029	Torsion Spring	1
2011	Rolling Bearing	4	2030	Rear Fixed Seat	1
2012	Dust Collection Box Roller	2	2031	Locking Screw M6x35-φ8	1
2013	Locking Washer	2	2032	Nylon Hollow Column	2
2014	Hex Socket Countersunk Head Screw M6x16	2	2033	Front Fixed Seat	1
2015	Bellows Fixing Clip	1	2034	Swing Arm	1
2016	Negative Pressure Silicone Ring	1	2035	Gas Spring Bracket	1
2017	Dust Box Base Plate	1	2036	Transparent Window	2
2018	U-Bolt	1	2037	Dust Collection Bag	1
2019	Hex Nut Type 1 M6	4			

G-800Pro Separator Assembly Exploded View



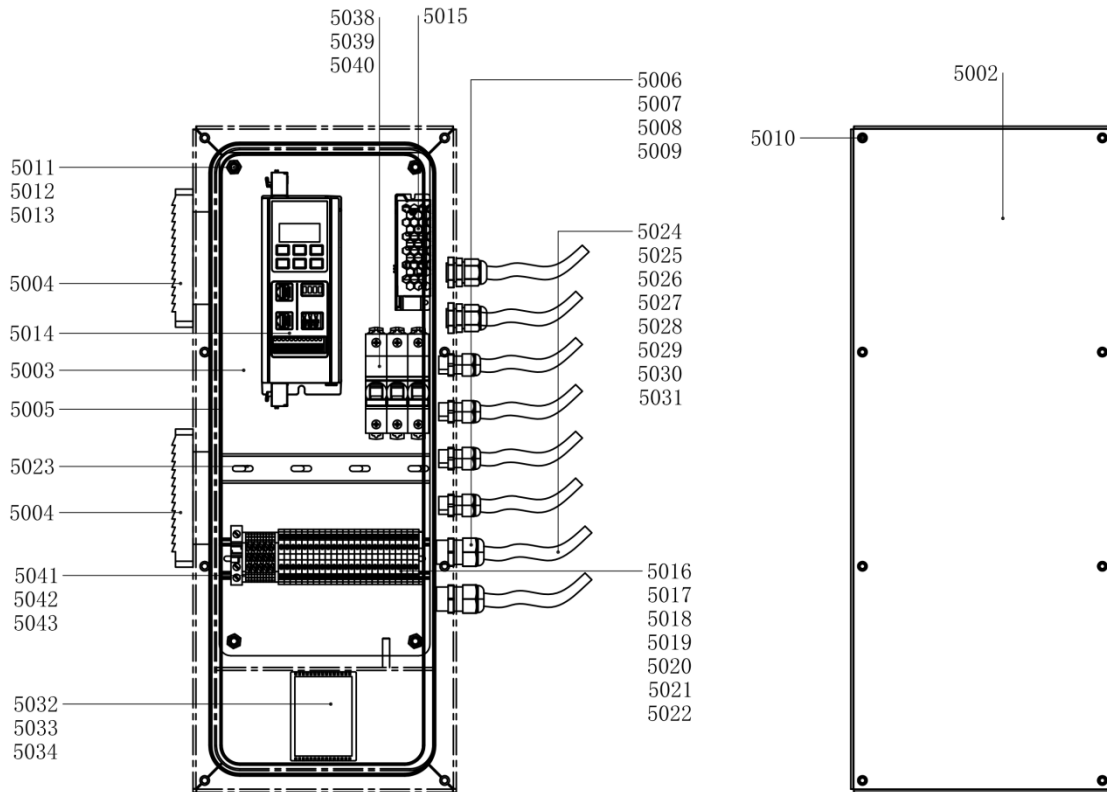
REF	DESCRIPTION	QTY	REF	DESCRIPTION	QTY
3001	Separator Weld Assembly	1	3010	Large Washer Grade A 6	22
3002	Seal Gasket 1	1	3011	Hex Head Bolt M8x20	6
3003	Separation Core Weld Assembly	1	3012	Standard Spring Washer 8	6
3004	Flat Washer Grade A 6	17	3013	Large Washer Grade A 8	6
3005	Standard Spring Washer 6	39	3014	Seal Gasket 3	1
3006	Hex Head Bolt M6x16	27	3015	Hexagonal Cylindrical Head Screw M6x20	6
3007	Seal Gasket 4	2	3016	Seal Gasket 2	1
3008	Transition Elbow	1	3017	Hex Socket Button Head Screw M6x20	6
3009	Dust Inlet	1	3018	Gas Pipe Fitting PL802	1

G-800Pro Display Screen Assembly Exploded View



REF	DESCRIPTION	QTY	REF	DESCRIPTION	QTY
4001	Switch Panel	1	4011	Transparent Protection Plate	1
4002	Switch Panel Seal Gasket	1	4012	Hex Socket Button Head Screw M3x8	4
4003	Cylindrical Head Screw M6x12	6	4013	Standard Spring Washer 3	10
4004	Isolation Switch	1	4014	Flat Washer Grade A 3	10
4005	Display Screen Housing	1	4015	Copper Standoff M3x40+3	4
4006	Sealing Strip (0.6m)	0.6m	4017	Thin Washer	6
4007	Touch Screen (with Circuit Board)	1	4018	Hex Nut Type 1 M4	4
4008	Hex Socket Head Cap Screw M3x5	10	4019	Hex Socket Head Cap Screw M4x20	4
4009	Seal Gasket	0.6m			

G-800Pro Electric box Exploded View



REF	DESCRIPTION	QTY	REF	DESCRIPTION	QTY
5002	Electrical Box Cover Plate	1	5022	Guide Rail	0.6m
5003	Electrical Installation Plate	1	5023	Wire Slot	1m
5004	Heat Vent	2	5024	Single-Core Wire	10m
5005	Self-Gripping Sealing Strip	1.4m	5025	Single-Core Wire	2m
5006	Cable Gland PG13.5	2	5026	Single-Core Wire	0.8m
5007	Cable Gland PG 9	3	5027	Android Screen Cable	2m
5008	Cable Gland PG11	1	5028	Power Cable	5m
5009	Cable gland PG7	2	5029	Motor Cable	2m
5010	Hex Socket Button Head Screw M6x25	4	5030	Differential Pressure Transmitter Cable	2m
5011	Hex Socket Head Cap Screw M6x16	4	5031	Pulse Valve Cable	3m
5012	Flat Washer Grade A 6	4	5032	Wireless Receiver	1
5013	Standard Spring Washer 6	4	5033	Wireless Receiver Label	1
5014	Inverter	1	5034	3M Double-Sided Tape	1
5015	Switching Power Supply	1	5035	Remote Control	2
5016	Terminal	20	5036	Remote Control Label	2
5017	Terminal (Blue)	3	5037	Antenna	1
5018	Terminal (Yellow-Green)	2	5041	Fuse 500mA	2
5019	End Plate	7	5042	Fuse 1A	1
5020	Terminal Fixer	2	5043	Fuse 2A	2
5021	Short Circuit Bar	1	5044	Fuse terminal	5



Good Enough Is Not Enough

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HARVEY INDUSTRIES CO., LTD.

68-10 Suyuan Avenue, Jiangning District, Nanjing 211100, China



Harvey Industries International Inc.

📍 10832 Ada Ave. Montclair, CA. 91763, United States

☎ 1-888-211-0397

✉ info@harveywoodworking.com



Harvey Industries Europe GmbH

📍 Ludwigstraße 16 35315 Homberg (Ohm) Germany

☎ 49-6633-9110396

✉ info@harveywoodworking.de
info@bridgecitytools.de



Canada Fulfillment Center

📍 1422 Pemberton Avenue, North Vancouver
British Columbia V7P 2S1, Canada

☎ 1-888-211-0397

✉ info@harveywoodworking.com



南京海威机械有限公司

📍 中国南京江宁经济开发区苏源大道68-10.

☎ 025-86668165

✉ shane@harvey.cn