



GYR AIR[®]

G-1000 Dust Processor

Operation Manual

Revision A : 2021-03-15



Index of Contents

1. Foreword	2
2. Machine Description	3
2.1 Feature Identification	3
2.2 Specification	4
2.3 Electrical Power Requirement	5
3. Safety Regulations	7
3.1 General Safety Instructions	7
3.2 Specific Safety Instructions for the Dust Processor	8
4. Installation of the Machine	9
4.1 Transportation of Machine	9
4.2 Positioning the Machine	10
4.3 Assembly	10
4.3.1 Unpacking	10
4.3.2 Removing the Pallet	10
4.3.3 Connection	11
4.3.4 Power Supply	11
4.3.5 Air Supply	12
5. Function and Operation	13
5.1 Touch Screen Operation Instruction	13
5.2 Instructions for Remote Control	18
5.3 Instructions for Synchronous Control	18
5.4 Pulse Parameters	19
5.5 Use of Dust Bin	19
5.6 Use of Dust Box	19
6. Maintenance	20
6.1 Cleaning Dust Bin	20
6.2 Cleaning Dust Box	20
6.3 Cleaning or Changing the Filters	20
7. Troubleshooting	21
8. Parts list	22
9. Declaration of Conformity	31

1. Foreword

This original instruction was developed as an integral part of this machine. It contains basic information for qualified operating staff. It also contains all necessary information for the correct and safe operation of this machine. These regulations, however, cannot cover all safety aspects. The operator must peruse and make sense of this manual before starting to use the machine. This manual should be put in a convenient place. If you lose this manual, please contact your distributor for a new one.

We maintain the right to modify specifications, designs, operation and maintenance instructions without advance notice.

We offer a two-year warranty based on the purchase date. Defective parts will be repaired or replaced by Harvey at no charge.

We do not offer the warranty service for the following reasons:

- Misuse
- Lack of proper maintenance;
- Not using genuine Harvey parts;
- Consumable parts;
- Force majeure, fire or explosion

NOTICE

Every machine we produce is fitted with a name plate with its serial number. The number is also punched on the machine.

An exact description of the machine model and serial number will facilitate rapid and effective replies from our after-sales service.

2. Machine Description

This product uses the Gyro Air dust processing technology, which effectively separates the dust from the air flow before the filter. This machine has the following features:

Reduces filter clogging:

The Gyro Air technology efficiently separates 99.7% of the dust from the air flow BEFORE the filter, providing the benefit of a lower capacity load on the filter and a longer filter life. The air flow levels are also maintained for a longer time during normal operation.

Clean emission:

Emission concentration $< 0.05 \text{ mg/m}^3$, better than the CE standard of 0.1 mg/m^3 .

Intelligent control:

Real time monitoring of dust levels in the dust bin, filter clogging, convertor and motor status for auto-dust cleaning; auto-start; remote-start; delayed dust cleaning.

Flow Cruise:

Intelligent speed control which maintains consistent air flow speed in the flow cruise mode.

Remarkable designs:

Heavy duty casters for easy positioning at the dust source; no need for specially designed pipeline; easy connection; low cost for building dust collection system.

Easy maintenance:

Easily-to-change tool-less filters; exhaust air by internal circulation, low maintenance cost.;

This product is suitable for dry dust process, neither can be used for the process of flammable and explosive dust nor be used in the flammable and explosive air environment.

2.1 Feature Identification (Fig.1)

- | | |
|--------------------|-------------------------|
| 1. Cabinet | 10. Filter |
| 2. Flow Duct | 11. Oil Water Separator |
| 3. Separator | 12. Disconnect switch |
| 4. Inlet | 13. Fan Motor |
| 5. Dust Bin | 14. Power Cable |
| 6. Operation Panel | 15. Gas storage tank |
| 7. Dust Box | 16. Directional wheel |
| 8. Swivel Wheel | 17. Electrical box |
| 9. Feet | |

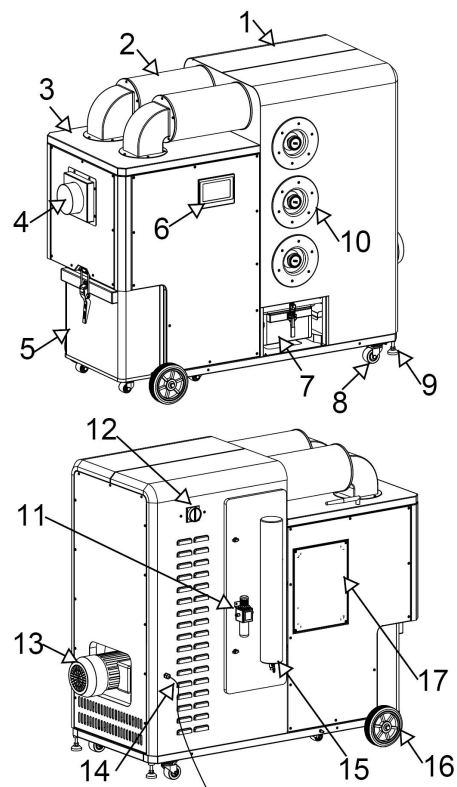


Fig.1

2.2 Specification

	G-1000	
	Metric	Imperial
Electrical		
Power Requirement	380-480V 50Hz 3-Phase	440V 60Hz 3-Phase
Breaker Size	15A	15A
Inverter Type	INOVANCE MS300	INOVANCE MS300
Motor		
Type	TEFC Induction	TEFC Induction
Power	3kW	3kW (4HP)
Voltage/Phase	380V/3-Phase	440V/3-Phase
Rated Amps	6.4A	6.4A
Speed	2400-4200rpm Variable	2400-4200rpm Variable
Dimensions & Weights		
Overall Dimension	1870x940x1500 mm	73-3/5x37x59 in.
Packing Size	2140x1100x1730 mm	84-1/4x43-1/4x68-1/8 in.
Net Weight/Gross Weight	445 / 545 Kg	980/1200 lbs
Performance		
Inlet Size	Φ160mm and Φ140mm	6"
Max. Air Flow	2400m³/h	1400CFM
Max. Static Pressure	4800Pa	19-1/4 inchwater
Max.Air Flow @ hose:	1850m³/h @ 160mm	1100CFM@ 6"
Impeller Size	Φ360mm	14 inch
Filter Efficiency	99.35%@0.3~0.5µm	99.35%@0.3~0.5µm
Filter Emission Rating	0.05mg/m³	0.05mg/m³
Filter Surface Area	12.6 m²	136SF
Number of Filters	3	3
Noise Rating @3m	61-72dB(A)	61-72dB(A)
Max.Dust Bin Capacity	150L	40Gal
Features		
Smart Jet-Pulse Filter Cleaning	Standard	
Dust Full Monitor	Standard	
Filter Monitor	Standard	
Flow Cruise	Standard	
Delayed Stop	Standard	
Wireless Remote Control	Standard (RC-800/1000)	
Wireless Synchronized Control	Optional (SC-800/1000)	
Dust Bag	Standard (DB-1000)	

2.3 Electrical Power Requirement

Power requirement: AC380-480V 3-phase

Breaker Size: 15A

The machine needs no further electrical installation.

For the **North American** market, the equipment comes with a 4-cord cable (L1, L2, L3, PE), without plug.

For the **European** market, the machine is equipped with a 4-cord cable (L1, L2, L3, PE) and a connector (5 cords).

The input power supply of the machine is 3-phase, AC380-480V. The steady-state AC power supply is 0.9-1.1 times of the rated value.

2.3.1 Equipment grounding

This machine must be grounded. If it should malfunction or breakdown, grounding provides a path of least resistance for the electric current to reduce the risk of electric shock. 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 building 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.

2.3.2 Cable Inspection and Extension

Before using, you need to check the cable to see if there is any damage. If any, it should be immediately repaired or replaced.

Extension cables cause a voltage drop, which may damage electrical components and shorten the motor life. Voltage drop increases as the extension cable size gets longer and the cable size gets smaller.

Minimum Gauge Size 2.5mm² (14 AWG)

Maximum Length (Shorter is Better).....15m (50 ft).

2.3.3 Power Supply Wiring Diagram(Fig.2)

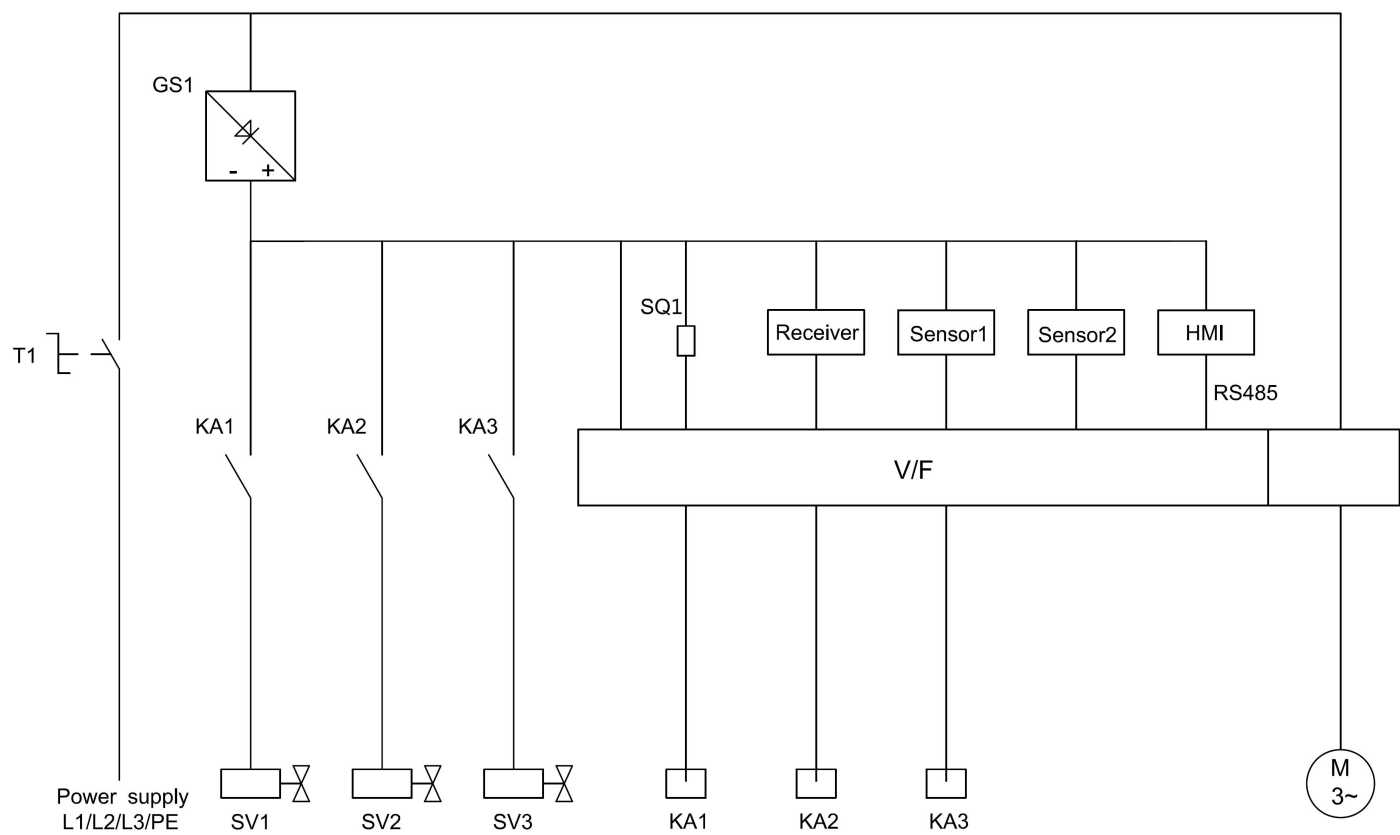


Fig.2

3. Safety Regulations

3.1 General Safety Instructions

WARNING

1. Read and understand the owner's manual and labels affixed to the machine. Learn its application and limitations as well as its specific potential hazards.
2. The power supply socket or terminals need reliable grounding.
3. Keep the machine in good working order, properly adjusted and aligned. Cluttered areas and benches may invite accidents. Make sure the floor is clean and not slippery due to wax and sawdust build-up.
4. **WARNING!** – To reduce the risk of electric shock:
 - Do not expose the machine to water or moisture.
 - Operators shall be adequately instructed on the use of these machines.
5. **CAUTION!** – This machine is for indoor use only.
 - This machine shall be stored indoors only.
6. Do not use this machine within the designated safety areas of flammable liquid– storage or in areas where there may be volatile gasses. Keep the work area clean, dry, and well-lit.
7. Keep children away from this machine.
8. Don't force the machine or the attachment to do a job for which it was not designed.
9. Do not wear loose clothing, gloves, neckties or jewelry (rings, watch) because they could get caught in moving parts. Non-slip footwear is recommended. Wear protective hair covering to contain long hair. Roll up long sleeves above the elbows.
10. Do not use this machine if you are tired, your attention is wandering or you are distracted.
11. If the work operation appears to be excessively noisy, it's advisable to wear ear protection.
12. Always wear safety glasses or a face shield when operating or observing machinery to reduce the risk of eye injury or blindness from flying particles. Everyday eyeglasses are not approved safety glasses.
13. **WARNING!** – To reduce the risk of electric shock:
 - Always unplug the machine during servicing.
14. **WARNING!** – To reduce the risk of injury from moving parts:
 - Always unplug the machine before servicing.
15. Make sure the power switch is in the "OFF" position before plugging it into an electrical outlet.
16. When turning the power "OFF", do not leave the machine unattended until it comes to a complete stop.
17. Regularly inspect the machine for damaged parts, loose bolts or any other conditions that may effect safe operation. Always repair or replace damaged parts before operating machine.
18. Keep the machine clean. This will enable you to easily see any damage that may have occurred. If need be, clean the machine with a damp soapy cloth. Do not use any solvents or cleaners as these may cause damage to any plastic parts or to the electrical components.

3.2 Specific Safety Instructions for Dust Processor

WARNING

1. CLEAN ENVIRONMENT

Once you are ready to commence work, remove any tools, objects or items that could inadvertently get 'sucked up' by the machine and place them safely out of the way.

2. INTENDED USE

Do not use this machine as a vacuum cleaner. Avoid stones, nails, etc., as it may produce a spark and cause a fire or an explosion. This machine is not suitable for picking up hazardous dust.

3. FIRE SUPPRESSION

Only operate the dust collector in locations that contain a fire suppression system or have a fire extinguisher nearby.

4. REGULAR CLEANING

Regularly check/empty the collection bags to avoid the buildup of fine dust that can increase the risk of fire. Make sure to regularly clean the surrounding area where the machine is operated --excessive dust buildup on overhead lights, heaters, electrical panes, or other heat sources will increase the risk of fire.

5. STATIC ELECTRICITY

Plastic dust lines generate high amounts of static electricity as dust chips pass through them. Although rare, sparks caused by static electricity can cause explosions or fire. To reduce this risk, make sure all dust lines are thoroughly grounded by using a grounding wire.

6. HAZARDOUS DUST

Dust created while using machinery may cause cancer, birth defects, or long-term respiratory damage. Be aware of dust hazards associated with each workpiece material, and always wear a NIOSH-approved respirator to reduce your risk.

7. DUST ALLERGIES

Dust from certain woods may cause an allergic reaction in people and animals. Make sure you know what type of wood dust you will be exposed to in case there is a possibility of an allergic reaction.

8. IMPELLER HAZARDS

Do not place your hands or tools near the open inlet during operation for any reason. The powerful suction could easily cause accidental contact with the impeller which will cause serious personal injury or damage to the machine. Always keep small animals and children away from open dust collection inlets.

4. Installation of the machine

This machine needs little-to-no assembly. It can almost be used directly out of the box.

4.1 Transportation of machine

4.1.1 Transportation and storage

The machine should be transported and stored in -25~55°C (-77~131°F) ambient temperature. Take care not to allow the machine to be exposed to rain or damage to the packing during transportation and storage.

⚠WARNING

- While transporting or handling the machine, be careful and let the activity be done by qualified personnel especially trained for this kind of activity!
- While the machine is being loaded or unloaded, make sure that no person is too close to be subject to injury.
- Select the proper transportation device according to the weight of the machine.
- Make sure the lifting capacity of the transportation device is capable for the weight of the machine.

⚠WARNING

The machine is very heavy therefore serious personal injury can happen if safe moving methods are not followed! To be safe, you will need assistance and power equipment when moving the shipping crate and removing the machine from the pallet!

4.1.2 Transportation before unpacking

As standard, the machine is packed in a robust wooden box.

Fig. 3 shows the method which can be used to transport the machine.



Fig.3

4.1.3 Confirmation after unpacking

When opening the packing box, please pay attention to the following items. If you have any questions, please contact your after sales department.

- 1) Has the machine been damaged in transportation?
- 2) All accessories and documents are included with the machine.
- 3) The product is consistent with the contract.
- 4) The specifications on the machine label are consistent with the contract.

4.1.4 Transportation after unpacking

When transporting the machine with a forklift, first find the center of gravity of the machine, insert the fork below the machine and then lift carefully.

4.2 Positioning the machine

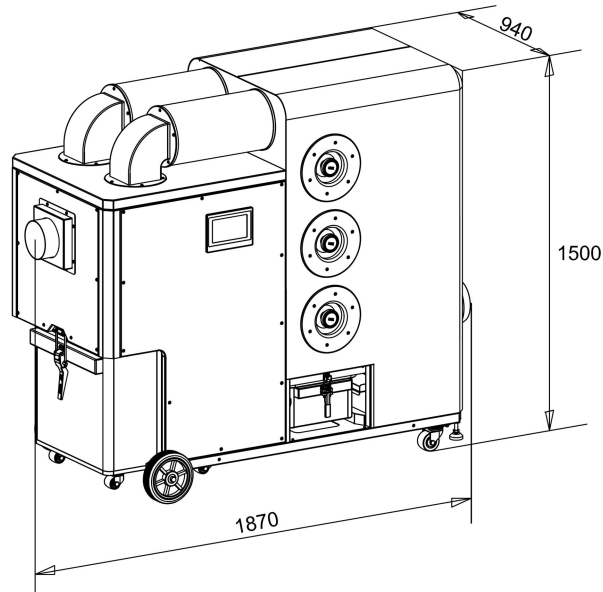


Fig.4

The machine should be placed at least 50cm (18 inches) away from the wall to ensure that the motor heat dissipation is adequate.

4.3 Assembly

4.3.1 Unpacking

Open shipping container and check for shipping damage. Report any damage immediately to your distributor and shipping agent.

4.3.2 Removing the Pallet

As shown in Fig. 5, the machine is mounted on a pallet by four (4) L shaped brackets. Remove the 4 brackets by loosening the bolts. Lift the machine by the forklift and remove the pallet

⚠WARNING

The side of the machine where the motor is mounted is heavier therefore its important to keep the machine balanced while lifting it to avoid serious injury.

To avoid serious injury, engage the two rubber feet once the machine is in its final position to prevent unexpected movement (See Fig 6).

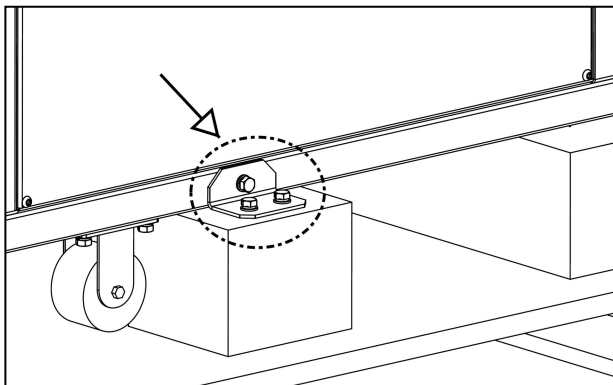


Fig.5

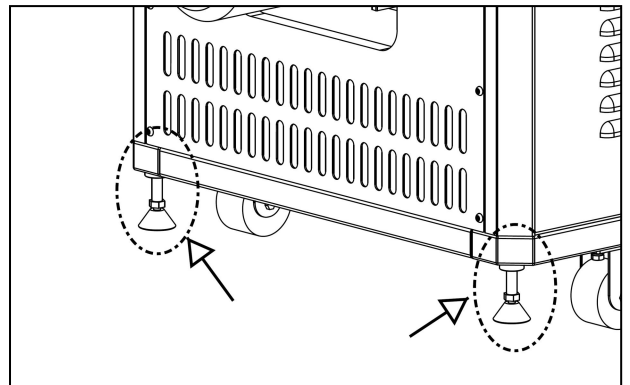


Fig. 6

4.3.3 Connection

Use flexible hose or solid pipe to connect the inlet with the dust source.

Plastic pipe, such as Polypropylene or Polyvinyl Chloride, can be used as long as it's been determined and confirmed that the dust is not an explosion hazard.

NOTE: *This machine does not contain dust collection hose(s) due to the dust source differences.*

4.3.4 Power Supply

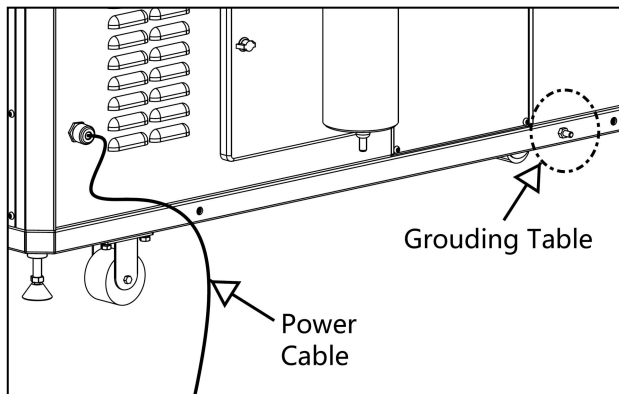


Fig.7

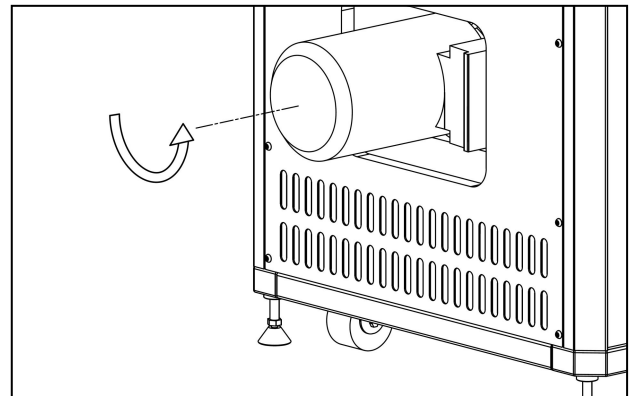


Fig.8

Wire the machine as indicated on the name plate, power supply wiring diagram as Fig. 2 .

For the **North American** market, the equipment comes with a 4-cord cable (L1, L2, L3, PE) without plug, as Fig.7.

For the **European** market, the equipment comes with a 4-cord cable (L1, L2, L3, PE) and a connector (5 cords).

Grounding

As shown in Fig. 7, there is a grounding screw on the back side of the machine. This machine should be connected to a permanent, grounded metal wiring system through this screw.

Check motor rotation:

(As shown in Fig. 7-1). If not rotating in the proper manner, any two power supply cables L1, L2 and L3 should be switched. This operation should be completed by a professional electrician.

⚠WARNING

Electrical connections must be made by a qualified electrician in compliance with all relevant building codes and ordinances.

Make sure the switch is in the "OFF" position before connecting to the power supply to avoid an unexpected start.

This machine must be properly grounded to help prevent electrical shock and possible fatal injury.

Repair or replace a damaged or worn cord immediately.

Using an extension or undersized cords will cause a drop in the line voltage and may result in loss of power and possible overheating.

4.3.5 Air Supply (compressed air)

⚠WARNING

Make sure the switch is in the “OFF” position before connecting to the compressor to avoid an unexpected start.

Air pressure requirement should be at least 0.8MPa (115psi).

As shown in Fig. 8, follow the instruction below:

Inspect the oil water separator pressure valve. If it is not shown at 0.6MPa, please adjust it to 0.6MPa.

Close the drain valve under the gas container. (The handle is in the horizontal position).

Mount an 8mm air hose to the position pointed in Fig. 8.

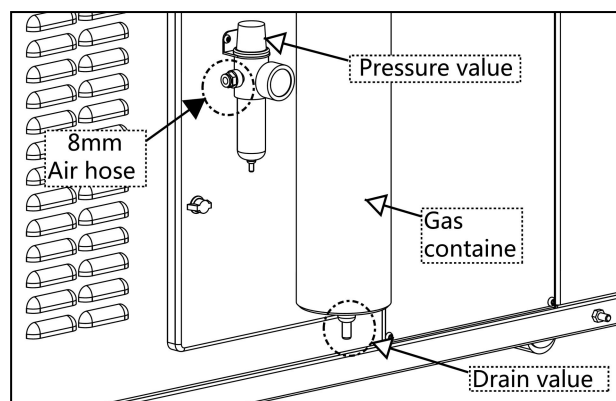


Fig.9

Congratulations!

You have completed assembly of this machine.

5. Function and Operation.

5.1 Touch Screen Operation Instruction (Fig. 10)

When the power is connected, the touch screen will light up and the main interface will display (as shown in Fig.10).The touch screen has four sections:

- A:** Running status display area.
- B:** Alarm information display.
- C:** Operation and control area.
- D:** Parameter set up area.

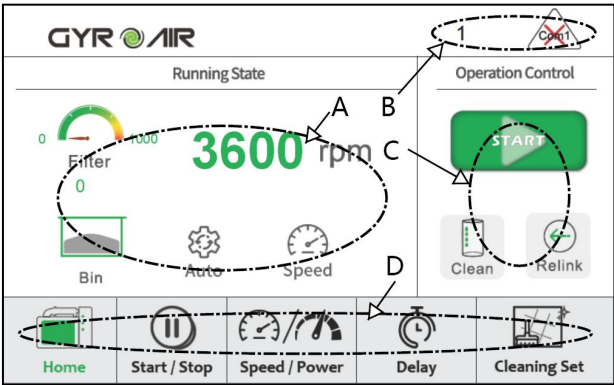


Fig.10

5.1.1 Running status display area A : (Fig. 10-1)

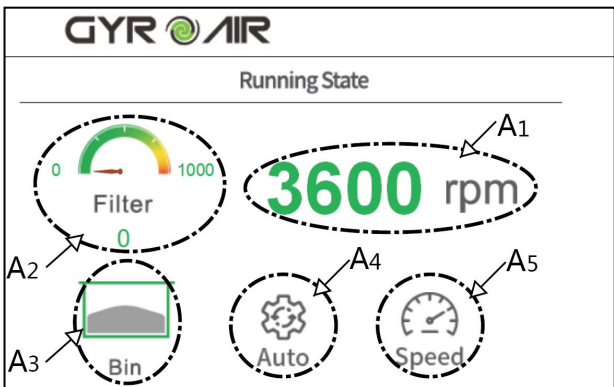


Fig.10-1

A1: Shows motor running speed

A2: Shows the filter status

The green number on the right side of the pressure scale is the set pressure difference threshold value (pa); the red pointer of pressure scale indicates the current front and back pressure difference of filter.

A3: Shows dust bin status.



Dust bin full



Dust bin not full

A4: Shows the current start/stop mode.



Manual mode



Linkage mode

A5: Shows the current running mode.



Speed adjustment mode



Cruise mode

5.1.2 Alarm information display area B (Fig. 10-2)

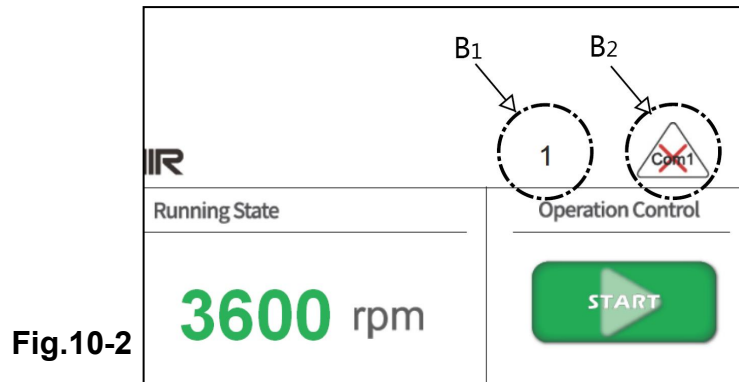


Fig.10-2

There is no display in normal status.

B1: Converter error code display.

B2: Shows the alarm of communication failure between touch screen and converter.

5.1.3 Operation and control area C (Fig. 10-3)

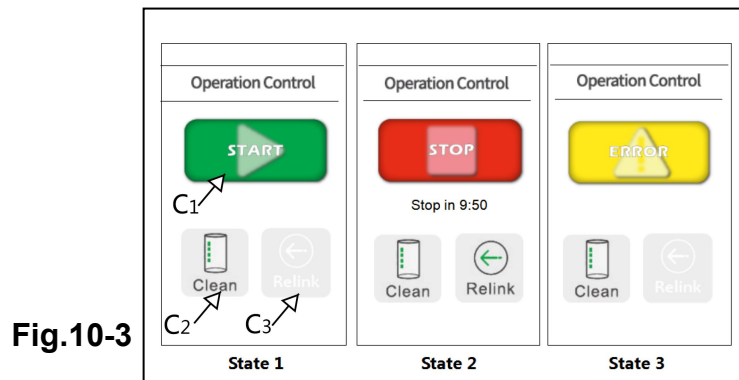


Fig.10-3

C1: Start/Stop button and machine alarm status instruction

Button C1 mainly shows the Start/Stop and alarm instruction of machine. Keep clicking this button for more than 0.1s to take effect.

When this button background is green, it means that the machine is in the state of power on and standby. Click it to start the machine, and the button background will display red.

When the button background is red, it means that the machine is running, click it to stop the machine; If the machine is set to delayed stop, after clicking the button, the countdown of delayed stop will display below the button (The delayed stop time is 10 minutes) will be displayed below the button; If you need to stop the machine immediately, you can click again after 1s, and the machine will be stopped immediately.

When the button background is yellow, it indicates that the dust is full or the filter is clogging.

Note: In the yellow state, you can click the button to start and stop the machine.

C2: Filter dust cleaning

C2 is the manual dust cleaning, click this button, the machine will clean dust for a period of time.

Note: If the machine is in the dust cleaning period, this button will show light colour, and the button can not be operated at this moment.

If the “Dust cleaning forbidden in running” is set, this button will show light colour, and the button can not be operated at this moment.

C3: Re-link

C3 is the re-link button, it shows light colour in normal state. When the start/stop mode of the machine is set up to the linkage mode, the manual start/stop operation (including the remote control) will change the mode into manual mode on its own. Only the manual start/stop operation is permitted at this time. The icon will flash in this area, by clicking on this C3 button, it will be re-linked again, and the button resumes light colour.

5.1.4 Parameter Set Up area D (Fig. 10-4)

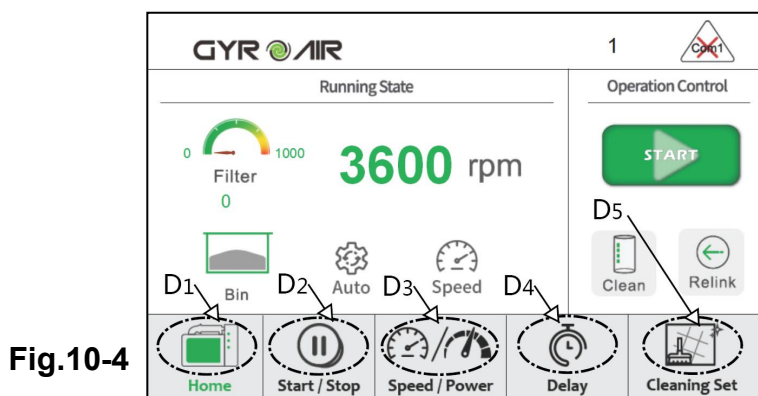


Fig.10-4

D1: Back button

Click this button back to home page (main interface).

D2: Start/Stop set up (Fig. 10-5)

There are two start/stop modes of the machine:

- 1) Manual start /stop mode.
- 2) linkage start/stop mode.

The dust source equipment should be connected to the Synchronous Control which is not included. See operation instructions of the Synchronous Control (SC-800/1000). Select and confirm the desired start/stop mode by clicking the “Start/Stop” button (Fig.10-5), then click the D1 button back to main interface.

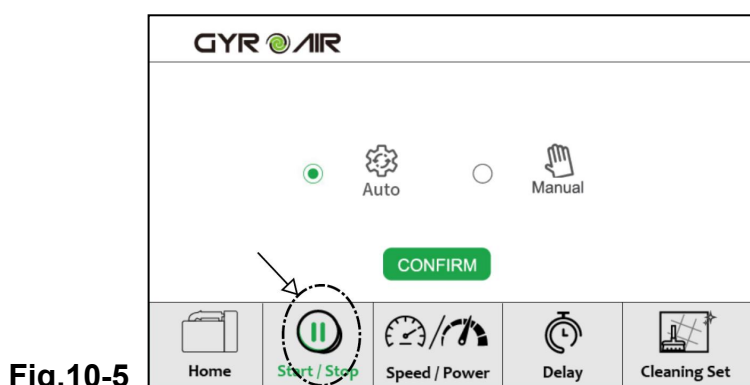


Fig.10-5

D3: Running mode set up (Fig. 10-6)

The machine can run in Speed Adjustment mode or Flow Cruise mode. Select the desired running mode by clicking the button “Speed/Power” (Fig.10-6), then click the D1 button back to main interface.

If selecting the Speed Adjustment mode, click the data input area indicated by the arrow to enter the motor speed. The selected range of speed is 2400-4200rpm. The 2400 rpm is factory set.

If selecting the Flow Cruise mode, click the data input area indicated by the arrow to enter the motor power. The selected range of power is 1760-2420W. The 2200W is factory set.

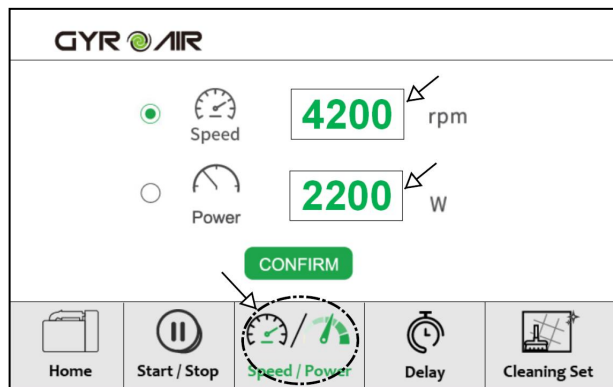


Fig.10-6

D4: Delayed stop set up (Fig. 10-7)

When dust collection is finished, the motor can be set up to delayed stop for general cleaning of the indoor air. The delayed stop time is 10 minutes. Click the “Delayed Stop” button to enter the set up interface(Fig.10-7). After selecting and confirming, click the D1 button back to main interface.

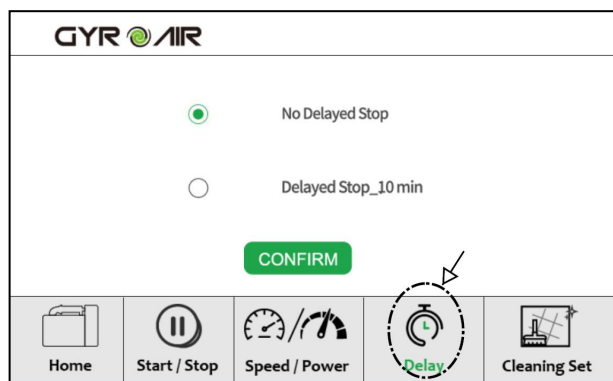


Fig.10-7

D5: Set up the dust cleaning parameter and mode (Fig. 10-8)

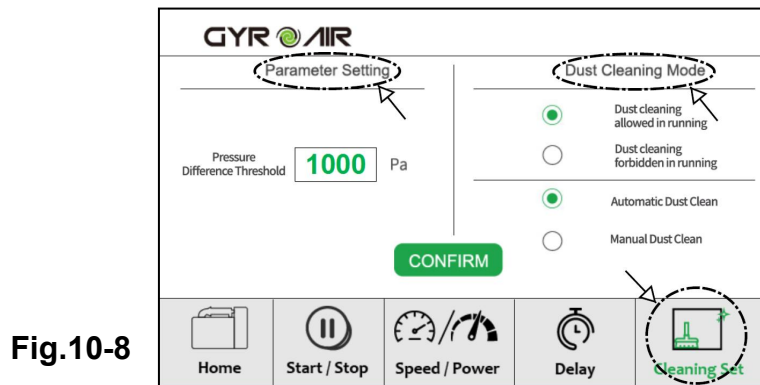


Fig.10-8

Set up the dust cleaning parameter and select the dust cleaning mode by clicking the “Cleaning Set” button (Fig.10-8).

Set up the dust cleaning parameter:

Click the input area of the filter pressure difference threshold value to enter the set pressure difference threshold parameter (The system default pressure threshold value is 1000pa, the recommended input range: 500-2000).After entering and confirming, click the D1 button back to main interface.

Set up the dust cleaning mode:

- 1) Dust cleaning allowed in running: This mode allows that the machine cleans dust while running. This mode is the factory default setting.
- 2) Dust cleaning forbidden in running: This mode forbids the machine to clean dust while running
- 3) Automatic dust cleaning: This mode allows that if the pressure difference is higher than the setting value, the dust cleaning system functions until the pressure difference is lower than the setting value.
- 4) Manual dust cleaning: This mode allows that the user clicks the “Filter dust cleaning” to clean the dust while the machine is running or stopped.

5.2 Instructions for Remote Control (Fig.11)

The **Remote Control** as supplied can be used to start and stop the dust processor. The remote control will connect to the dust processor through Bluetooth. The effective control distance is up to 50 meters. When using the remote control, the operator does not need to aim the remote control to the dust processor.

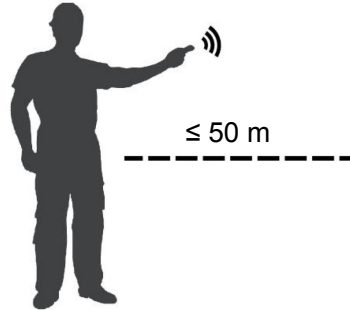


Fig. 11

For detailed operating instructions, please refer to the operation manual of the **Remote Control**.

5.3 Instructions for Synchronous Control (Fig.12)

The user can achieve the synchronous operation of the dust processors and the dust source equipment by using **Synchronized Control**. After a simple installation and setup, the start and stop of the dust processors will automatically associate the dust source equipment.

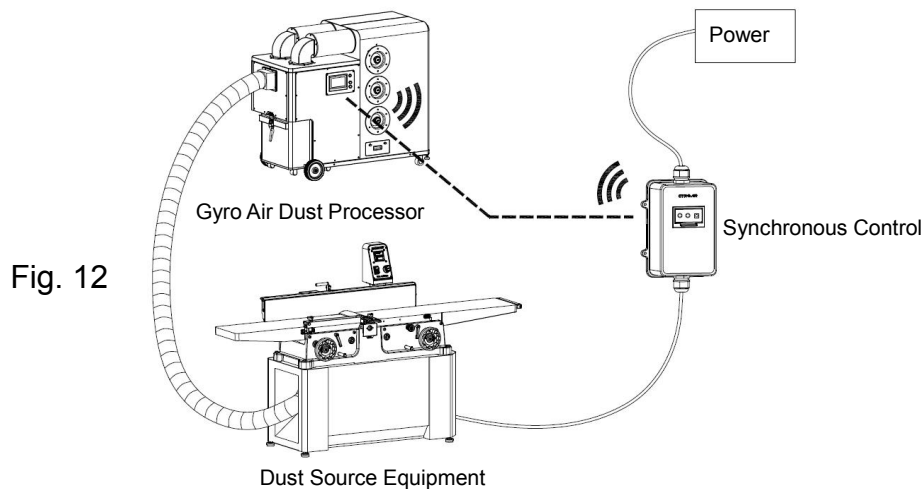


Fig. 12

For detailed operating instructions, please refer to the operation manual of the **Synchronized Control**.

5.4 Pulse Parameters

Parameter name	Parameter value
Number of pulses	3
Period cycle	300 seconds
Pulse period	10 seconds
Width of pulse	0.12 seconds

The parameters above have been set in factory and can not be changed.

Parameter description:

Number of pulses: the number of pulse magnetic valves equipped on the machine.

Period cycle: refers to the time between the pulse magnetic valves opening and closing

Pulse period: the time between each magnetic valve opening is the pulse period, in one cycle.

Width of pulse: the open time of the magnetic valves.

5.5 Use of Dust Bin

As shown in Fig. 13, release the handle and pull out the dust bin. After emptying the bin, push the bin back into the end of the cabinet and lock the handle.

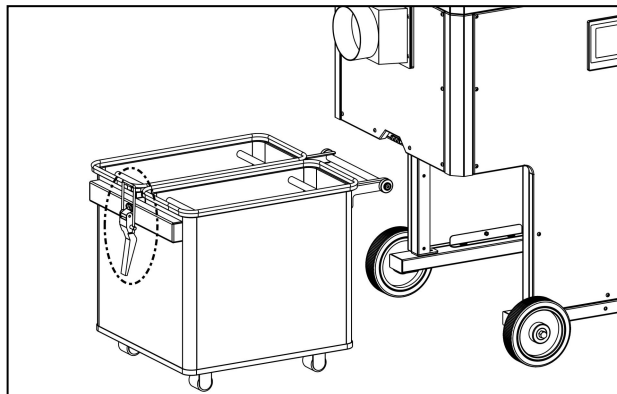


Fig.13

5.6 Use of Dust Box

As shown in Fig. 14 release the handle and pull out the dust box, and pull out the dust box to empty the dust..

Simply dump it out or use a vacuum dust collector to empty the box. Clean the spill over dust in the cabinet at the same time.

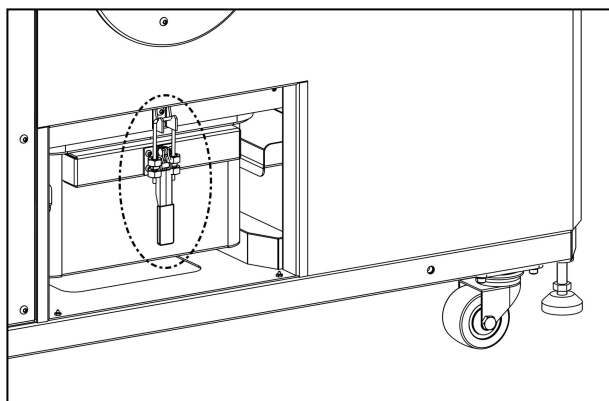


Fig.14

6. Maintenance

⚠WARNING

Power off the machine before cleaning. Do not clean, repair or maintain the machine until all moving parts have stopped to avoid serious injuries.

Disconnect the air supply before cleaning, repair or maintenance.

6.1 Cleaning Dust Bin (Fig. 13)

The dust bin must be cleaned when the dust bin is 2/3 full for non-metal material. The dust bin should be cleaned when the dust bin is half full for metal material.

In actual usage, dust bin cleaning schedules can be set after using the unit for one week.

Clean the sealing strips with a cloth when cleaning the dust bin.

6.2 Clean Dust Box (Fig. 14)

Observe the dust box daily. The dust box must be cleaned when the dust box is 2/3 full for non-metal material. The dust box should be cleaned when the dust box is half full for metal material.

In actual usage, dust bin cleaning schedules can be set after using for one week. Basically, once the machine has been used for a while in a particular operation, the user can determine a regular schedule based on time or pieces processed for a bag emptying schedule.

6.3 Cleaning or Changing the Filters (Fig. 15)

When the pressure drop alarm sounds, the filter needs to be cleaned. Follow the instructions below:

1. See chapter 5.1.2 to clean the filter. Using the delayed dust cleaning every day when finishing your job is the most efficient way to maintain the filter.
2. As shown in Fig. 15, turn the locking knob and pull out the filter. Use compressed air to clean the dust on the outside of the filter.
3. If method 1 and 2 can not solve the pressure drop problem, this means the filter is failing and must be changed.

Filter changing instruction

As shown in Fig. 15, turn the filter locking knob and pull out the filter.

Unscrew the 6-M6x16 screws, take out the old filter and then put the new filter in.

As shown in Fig.15, mount the new filter, screw the 6- M6x16 screws back into place and turn and firmly lock the knob.

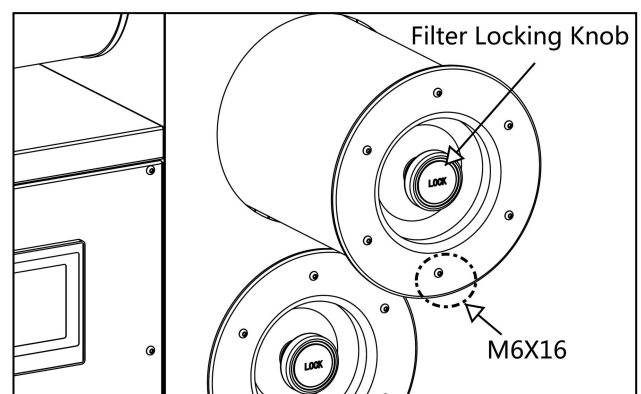


Fig.15

NOTE: The same filter must be used as provided by the manufacturer.

The filter lifetime is approximately 1000-3000 hours depending on the conditions of the working environment including but not limited to: the amount of usage, type of dust material, type of dust density and the diameter of the particles. Dust collection results may vary. Filter changing will vary according to the actual dust collection activities and/or filter cleaning result.

7. Troubleshooting

7.1 Dust Bin Full & Pressure Drop Alarm

When the alarms occur, the Start/Stop button will become yellow:

- The machine will stop automatically 15 minutes after the dust bin full alarm occurs.
- When the filter clogging alarm occurs, the machine will be cleaned automatically in running state.

Dust Bin Full Alarm: Clean the dust bin.

Pressure Drop Alarm: Refer to Section 6.3 Cleaning or Changing the Filters.

7.2 Converter Faults

When the converter failure occurs, the machine can not start. The most common faults are over current, voltage shortage and over voltage. When any faults like this occur, the machine will stop running.

The fault information is displayed on the touch screen. In most cases, powering off and restarting (restarting after 5 minutes of power off) will eliminate the failure.

The remedies for common faults are shown in the table below. If the problem still cannot be solved, please contact the machine supplier for help.

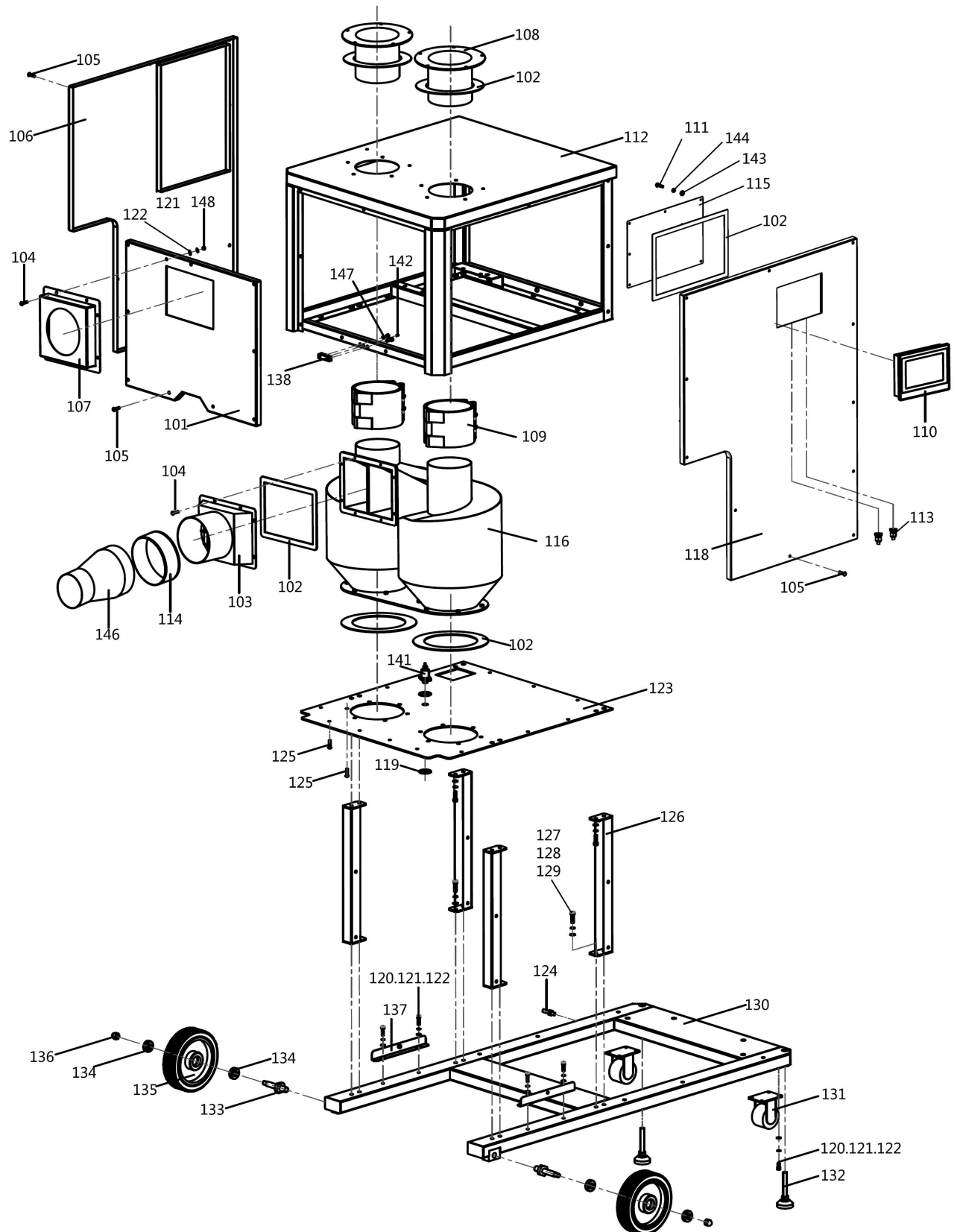
WARNING

Disconnect the power supply for 5 minutes before turning on the converter. During this time period, the capacitance in the converter has a dangerous voltage. Customer shall not maintain or repair the components within the converter.

Error code	Trouble Description	Remedy
1、2、3	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.
7、8、9	Over voltage	Check the power supply voltage. The allowed voltage range is 220-240V
12、13、14	Voltage shortage	Check the power supply voltage. The allowed voltage range is 220-240V
16	Converter overheated	Check if the converter fan is working.
		Check if the motor is overloaded or stalled, suggest reducing the speed.
24	Motor overheated	Check if the motor is overloaded or stalled, suggest reducing the speed.

8. Exploded View and Parts List

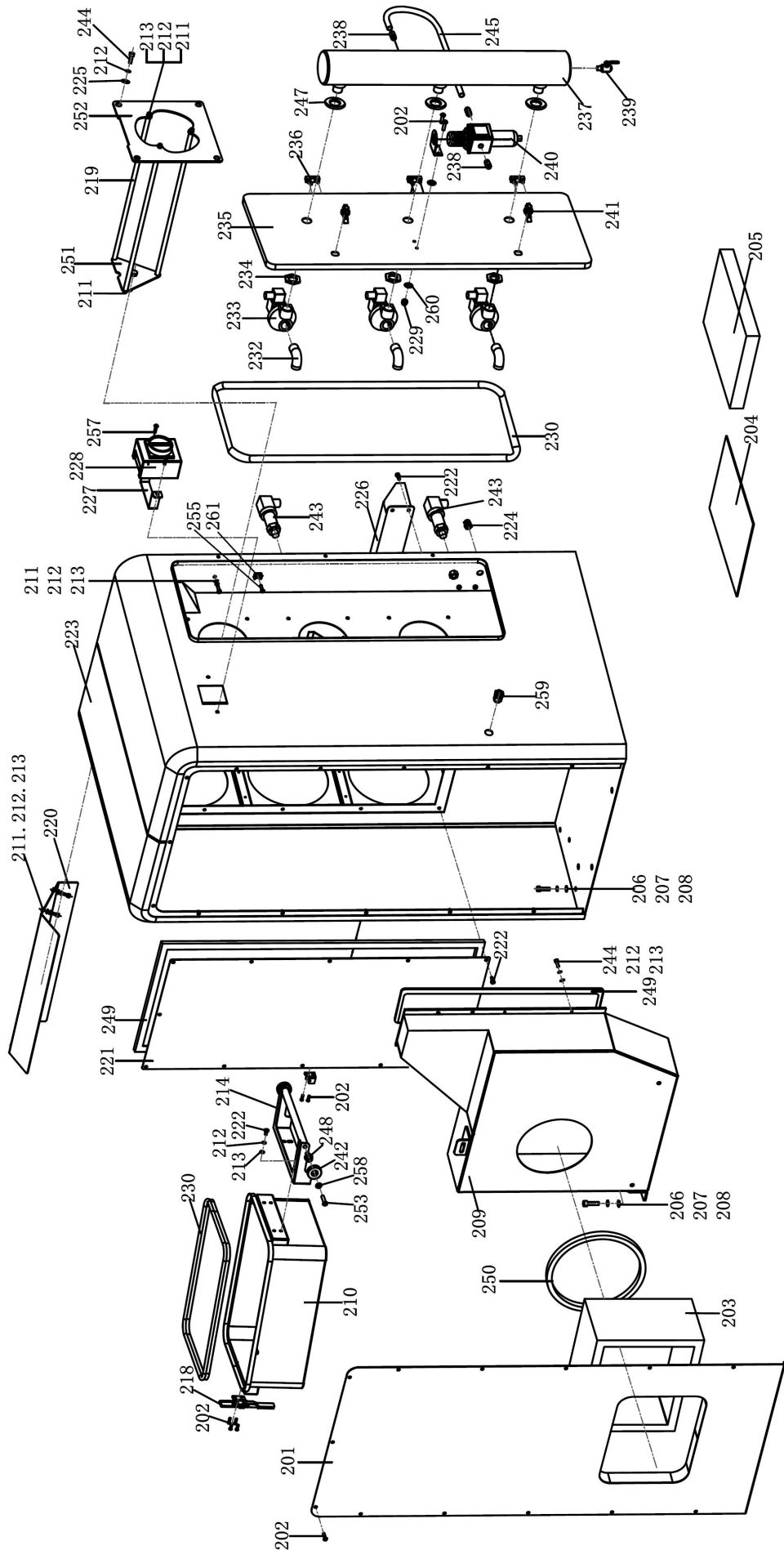
Frame Assembly Exploded View



Frame Assembly Parts List

REF#	DESCRIPTION	QTY	REF#	DESCRIPTION	QTY
101	Side panel	1	123	Base plate	1
102	EVA gland	5.2m	124	Grounding screw	1
103A	Air inlet-150mm	1	125	Button HD screw M6x16	25
103B	Air inlet-160mm	1	126	Support leg	4
	(only for European)		127	Flat washer 8	16
104	Button HD screw M6x12	16	128	Spring washer 8	16
105	Button HD screw M6x30	31	129	Cap screw M8x16	16
106	Back panel	1	130	Frame	1
107	Trim cover	1	131	Swivel caster	2
108	Joint pipe	2	132	Foot	2
109	Pipe connector DN125	2	133	Roller shaft	2
110	Touch screen 7"	1	134	Bearing 6202	4
111	Cap screw M5x12	8	135	Wheel	2
112	Bracket for separation elements	1	136	Cap nut M12	2
113	Strain relief PG11	2	137	Fixed support	2
114	Silicone 150mm	1	138	Locking hook	1
	(only for European)		141	Photo switch	1
115	Touch screen cover	1	142	Set screw M4x6	1
116	Separator welding assembly	1	143	Flat washer 5	8
117	/		144	Spring washer 5	8
118	Front panel	1	145	/	
119	Rubber pad	2	146	Adapter 160mm-140mm	1
120	Cap screw M6x20	12		(only for European)	
121	Spring washer 6	20	147	Cap screw M6x12	2
122	Flat washer 6	20	148	Nut M6	8

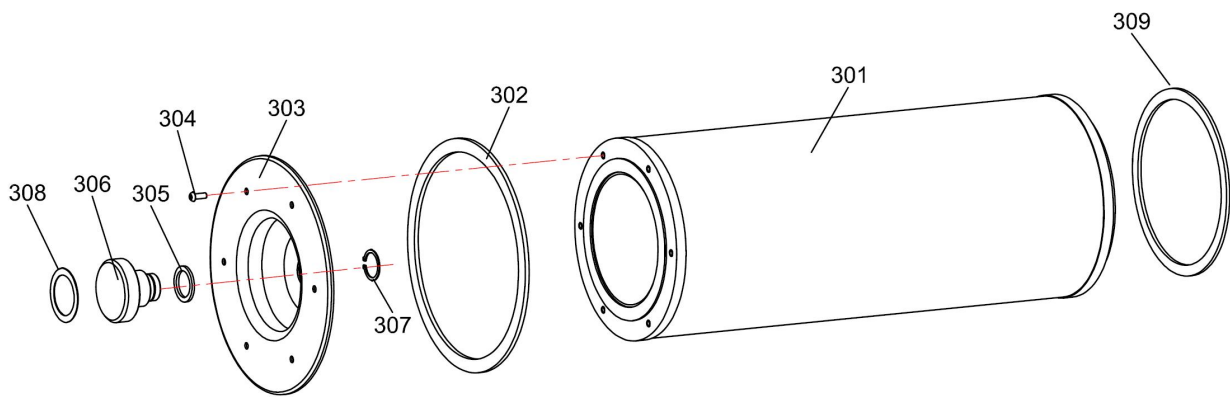
Cabinet Assembly Exploded View



Cabinet Assembly Parts List

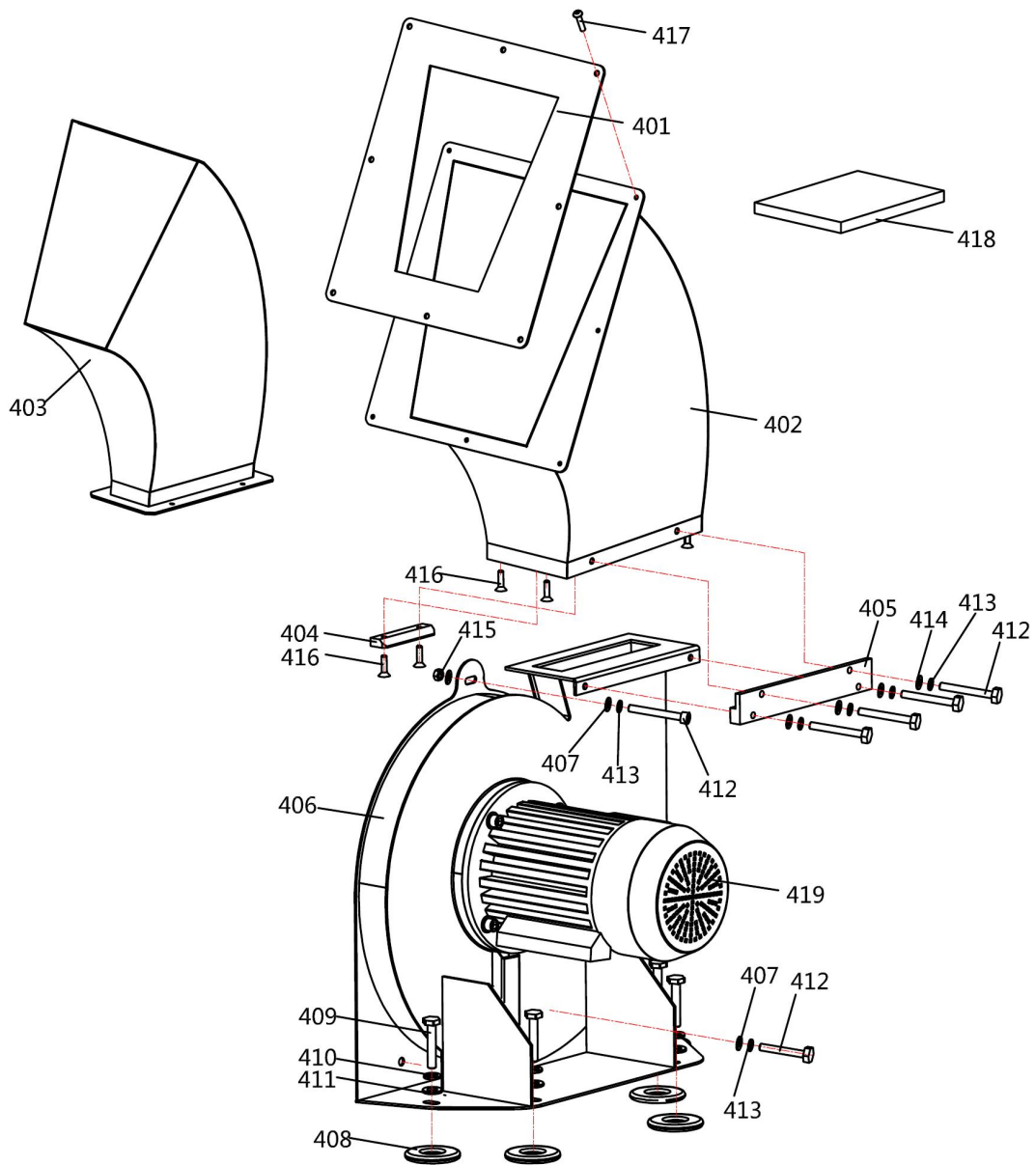
REF#	DESCRIPTION	QTY	REF#	DESCRIPTION	QTY
201	Side cover	1	232	Elbow pipe	3
202	Button HD screw M6x12	21	233	Pulse solenoid valve	3
203	Sound insulation pad	1	234	Thin nut DN20	6
204	Sound insulation damper	1	235	Back cover	1
205	Sound-absorbing cotton	1	236	Hinge	3
206	Cap screw M8x16	5	237	Gas storage bag	1
207	Spring washer 8	5	238	Pipe joint PT 1/4	3
208	Flat washer 8	5	239	Brass ball valve	1
209	Diversion box	1	240	Clean Air Component	1
210	Dust bin	1	241	Cam lock	2
211	Cap screw M6x12	28	242	Bearing 6203	2
212	Spring washer 6	43	243	Pressure sensor	2
213	Flat washer 6	31	244	Cap screw M6x20	20
214	Locking bracket	1	245	Pneumatic hose 8	0.4m
215	/		247	Rubber pad	3
216	/		248	Roller shaft	2
217	/		249	EVA gland	5m
218	Lock handle	1	250	Seal ring	1
219	Support rod	9	251	Support plate before	3
220	Dust board	1	252	Support plate rear	3
221	Inner cover	1	253	Cap screw M8x12	2
222	Hex bolt M6x16	22	254	/	
223	Cabinet	1	255	Button HD screw M5x20	2
224	Strain relief PG 9	3	256	/	
225	Flat big washer 6	12	257	Button HD screw M6x30	2
226	Locking support	1	258	Big washer 8	2
227	Switch bracket	1	259	Strain relief PG 16	1
228	Switch	1	260	Nylon washer 6	4
229	Cap nut M6	2	261	Cable tie holder	2
230	Rubber seal strip	5m			

Filter Assembly Exploded View



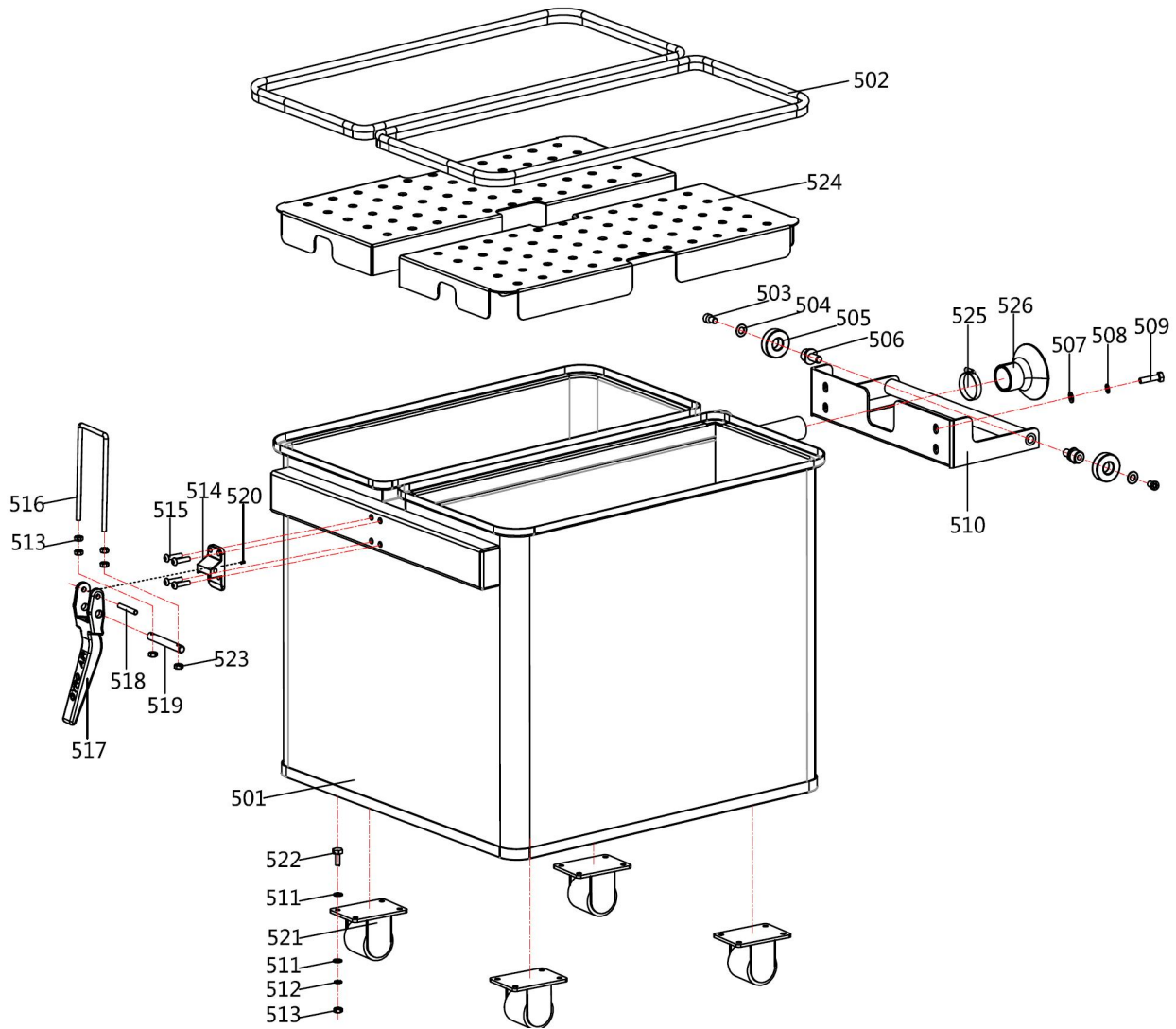
REF#	DESCRIPTION	QTY	REF#	DESCRIPTION	QTY
301	Filter	1	306	Lock handle	1
302	Gasket for end cover	1	307	Circlip for shaft 30	1
303	Filter end cover	1	308	Green decorative circle	1
304	Button HD screw M6x12	6	309	Gasket for filter	1
305	Teflon gasket	1			

Blower group Exploded View



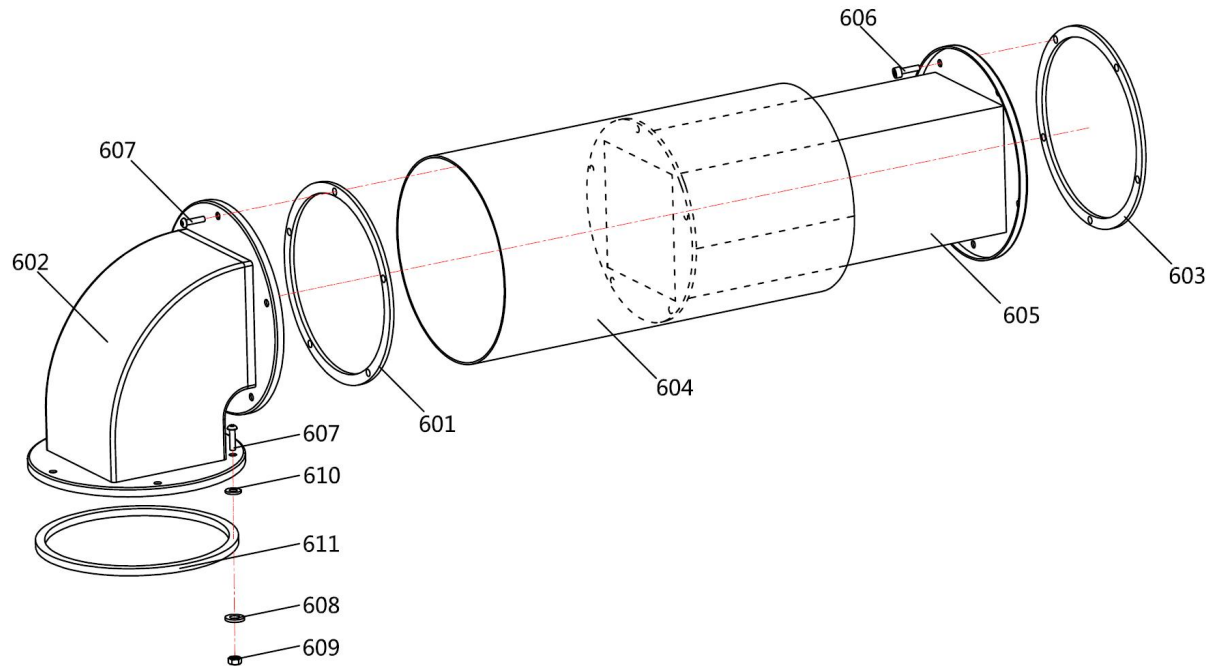
REF#	DESCRIPTION	QTY	REF#	DESCRIPTION	QTY
401	Muffler cover plate	1	411	Flat big washer 12	4
402	Muffler housing	1	412	Hex bolt M8x30	7
403	Muffler core	1	413	Spring washer 8	7
404	Locking hooks	1	414	Flat washer 8	4
405	Locking block	1	415	Nut M8	1
406	The fan casing	1	416	Flat HD screw M6x20	6
407	Flat big washer 8	4	417	Cap screw M6x12	8
408	Shock pad	4	418	Sound-absorbing cotton	1
409	Hex bolt M12x40	4	419	Motor	1
410	Spring washer 12	4			

Dust Bin Assembly Exploded View



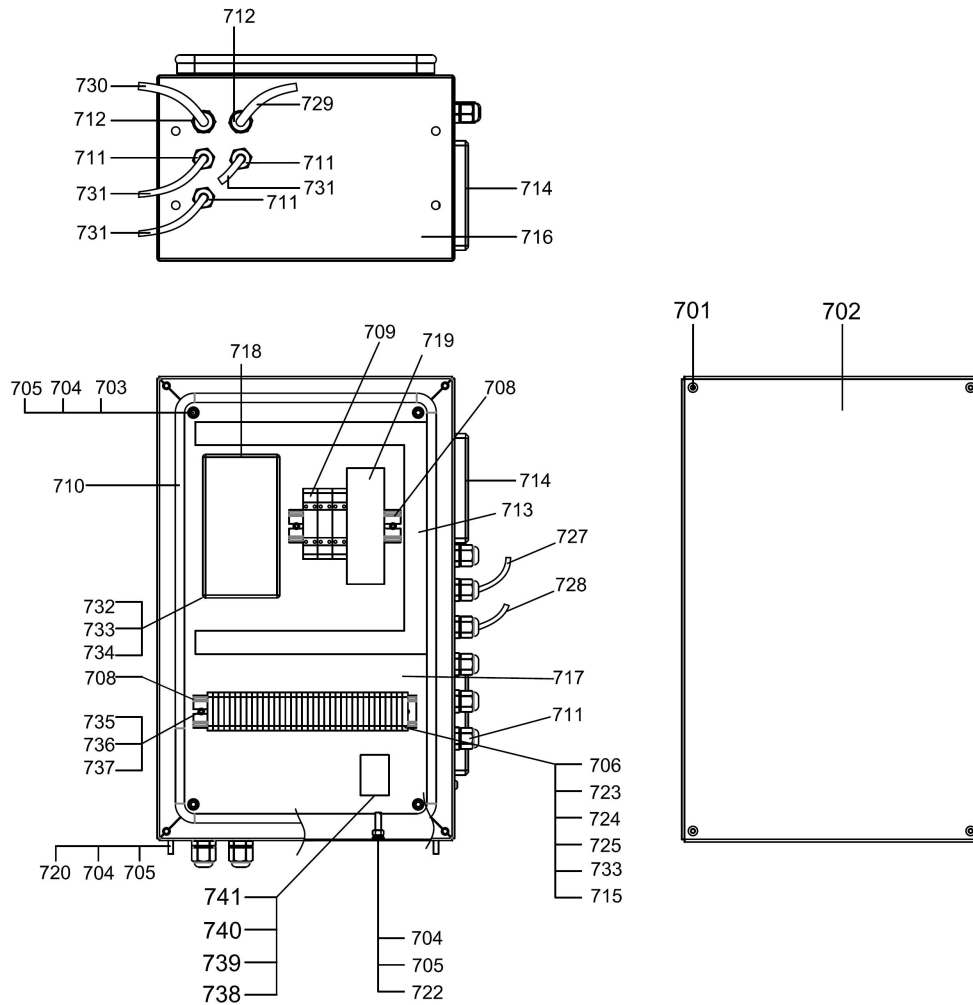
REF#	DESCRIPTION	QTY	REF#	DESCRIPTION	QTY
501	Dust bin	1	514	Lock block	1
502	Rubber seal strip	1	515	Button HD screw M6x16	4
503	Cap screw M8x12	2	516	U type bolt	1
504	Flat big washer 8	2	517	Lock handle	1
505	Bearing 6203	2	518	Revolving bar	1
506	Roller shaft	2	519	Lock pin	1
507	Flat washer 8	4	520	Set screw M5x10	1
508	Spring washer 8	4	521	Swivel caster	4
509	Hex bolt M8x16	4	522	Button HD screw M6x16(Nickel)	16
510	Lock bracket	1	523	Lock nut M6	2
511	Flat washer 6	32	524	Bottom plate	2
512	Spring washer 6	16	525	Tube reed	1
513	Nut M6	20	526	Silicone	1

Guide Tube Assembly Exploded View



REF#	DESCRIPTION	QTY	REF#	DESCRIPTION	QTY
601	Gland for the bend	1	607	Button HD screw M6x25	10
602	90 degree bent	1	608	Flat big washer 6	5
603	Gland for draft tube	1	609	Nut M6	5
604	Flow guide outer tube	1	610	Flat washer 6	10
605	Flow guide inner tube	1	611	EVA gland	1
606	Cap screw M6x12	5			

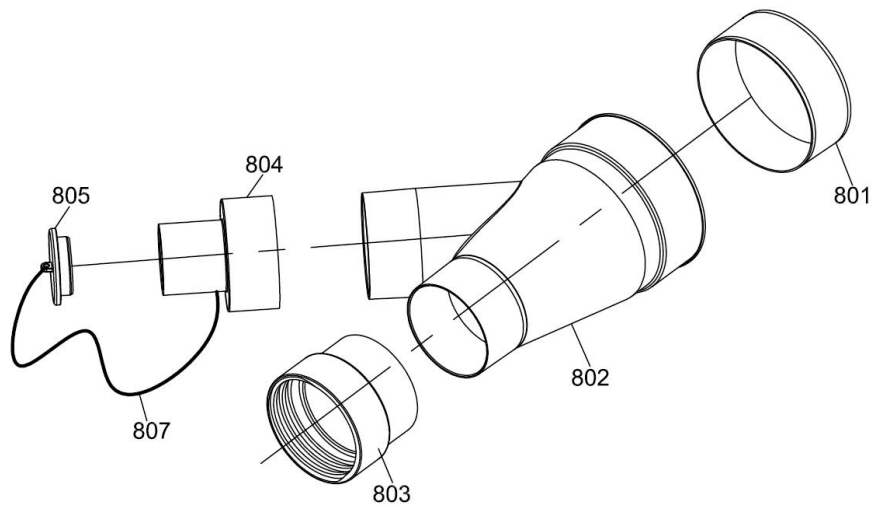
Electric box Exploded View



REF	DESCRIPTION	QTY	REF	DESCRIPTION	QTY
701	Button HD screw M6x30	4	722	Nut M6	2
702	Electrical box cover plate	1	723	Short-circuiting bar	2
703	Cross recess screw M6x12	4	724	Terminal (grey)M4/6	28
704	Spring washer 6	9	725	Terminal (yellow-green)M4/6	3
705	Flat washer 6	9	726	/	
706	Terminal cover plate	8	727	Cable 0.5*3C	1.5m
707	/		728	Nine stitches(hole),1.5m	1
708	Snap-gauge	0.5m	729	Motor Cable	4m
709	Relay module	3	730	Power cable	7m
710	Sealant tape	1.4m	731	Cable 1*2C	4m
711	Strain relief PG9	9	732	Cap screw M4x12	4
712	Strain relief PG16	2	733	Spring washer 4	4
713	VXC (50x25)	0.8m	734	Flat washer 4	4
714	Heat-sink window	2	735	Cap screw M3x10	10
715	Terminal holder	4	736	Spring washer 3	10
716	Electrical box	1	737	Flat washer 3	10
717	Electrical installation plate	1	738	Self-tapping screw M3x6	4
718	Frequency converter	1	739	Wireless receiving module	1
719	Switching Power Supply	1	740	Wireless receiver shell	1
720	Cap screw M6x20	4	741	Double-side tap	1

Y Adapter Exploded View

(This item is not available for European Version)



REF#	DESCRIPTION	QTY	REF#	DESCRIPTION	QTY
801	Silicone 150mm	1	804	Adapter 4"-2"	1
802	Y type inlet	1	805	Seal cover	1
803	Adapter 4"	1	807	Chain	1

8. Declaration of Conformity



Declaration of Conformity (Manufacturer's Declaration)



We: Harvey Industries Co., Ltd.
01 Building, No.68 Suyuan Road, Jiangning Economic & Technological Development
Zone, Nanjing 211100, P.R. China

Produce: Gyro Air Dust Processor
Model: G-800, G-1000

to which this declaration applies, complies with the following directives and/or
standards:

EN 60335-1:2012+A11+A13
EN 60335-2-69:2012
06/42/EC - Annex- I /05.06

Notes:

This declaration becomes invalid, if technical or operational modifications are introduced without
the manufacturers consent.

Notes:

This declaration becomes invalid, if technical or operational modifications are introduced without
the manufacturers consent.

Person responsible for keep the technical file:

Person responsible for making this declaration:

Name and signature: Kelvin.qin(秦晓钢)

Date and place: 2019-06-27 Nanjing

Title of signature: R&D Manager

GYR AIR[®]

Dust Processor



Harvey Industries Co., Ltd

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

www.harveymachinery.com

Harvey Industries International Inc.

10830 Ada Ave. Montclair, CA. 91763

TEL: 1-800-253-3332

E-mail: info@harveywoodworking.com