HARVEY®

GYRO AIR®

G700 Dust Processor

Operation Manual

Revision A (2021-01-30)

298002912

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1. Foreword

This manual 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. These regulations, however, cannot cover all other safety aspects. Operator must peruse and make sense of this manual before starting to use the machine.

2. Machine Description

The G-700 dust processor is a revolutionary dust extractor with the unique GYRO AIR technology. Unlike any existing dust extractors in the world, G-700 directs dust flow into the Gyro Air system that generates powerful centrifugal force and efficiently separates dust from air. With this special technology, G-700 delivers unprecedented performance, including a 99.9% separation efficiency before Filter and significantly reduces noise levels.

The dust processor G-700 is used only for wood chips or other dust collection, do not collect liquid, poisonous gas, explosive goods and viscous substances or other potentially dangerous substances

The G-700 dust processor is designed to collect dust from one or two machines at the same time. This can be accomplished by either connecting it to multiple machines using blast gates to control which branch is active.
The dust processor is intended to be operated not far from the machine needing dust collection

Only a skilled operator or worker instructed and trained may operate the machine. While working on the machine the operator must be familiar with these instructions and comply with safety rules, regulations and provisions in force in the respective country.

2.1 Feature Identification (*Fig.1*)

A	Dust extractor adaptor
B	Control panel
C	Buzzer
D	Pressure Gage
E	Handle
F	Window
G	GYRO Air separate
H	Filter Cleaning Knob
I	Filter(inside)
J	Fine dust cleaning port
K	Dust bin(inside)
L	Door

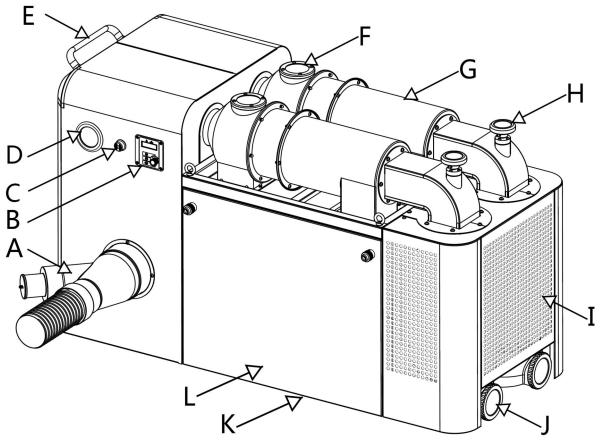

Fig.1

2.2 Specification

Model：G-700	Imperial	Metric
Electrical		
Power Requirement:	220V,Single Phase,50/60Hz	
Breaker Size:	20A	
Inverter Type:	INOVANCE MD200	
Motor		
Type:	TEFC Induction	
Power:	1.5Kw(2HP)	
Phase:	3Phase	
Rated Amps:	5.8A	
Speed:	2280-4275rpm Variable	
Product Dimensions		
Overall Dimension:	56-1/4x23-1/2x33-7/8"	1430x579x858mm
Packing Size:	59x28-1/2x42-1/4"	1500x725x1072mm
Product Weight		
Net Weight:	445lbs	195KG
Gross Weight :	510lbs	222KG
Performance		
Max. Air Flow:	1110CFM	1885 m^3/h
Max.Static Pressure:	18-1/2 inches of water	4600Pa
Max.Air Flow @4 inch hose:	700CFM	1190 m^3/h
Static Pressure @ 4 inch hose:	5-5/8 inches of water	1400Pa
Impeller Size:	12inch	Φ300mm
Main Inlet Size:	6inch	Φ150 mm
Adapter Inlet Size:	4 inch x 2	Φ100 mm x 2
Filter Emission Rating:	0.05mg/m³	0.05mg/m³
Filter Surface Area:	75 SF	7 m^2
Noise Rating @3m	61-72 dBA	61-72 dBA
Max.Dust Bin Capacity:	32GAL	120L
Manual Filter Cleaning:	Yes	
Intelligent Dust-Full Monitoring system:	Yes	
Pressure Gauge:	Yes	
Remote Control	Yes	

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.

Position of nameplate is on the side of the main base unit.

2.3 Requirement of electrical power

Power requirement: 220VAC / 1PH

The machine needs no further electrical installation. Equipment comes with 1.8 meters of cable with a plug. For longer runs, please use an appropriate extension cord meeting your local area codes.

The input power supply of the machine is 1PH, AC220V. 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 provide a path of least resistance for 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 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.

This appliance is for use on a circuit having a nominal rating 220 V and is factory-equipped with a specific electric cord and plug to permit connection to a proper electric circuit recommend minimum 20A circuit breaker. Make sure that the appliance is connected to an outlet having the same configuration as the plug. No adaptor should be used with this appliance. If the appliance must be reconnected for use on a different type of electric circuit, the reconnection should be made by qualified service personnel.

2.3.2 Cable inspection and Extension

Before using, you need to check the power plug and cable to see if there is any damage. If any, should be immediately repaired or replaced.
We do not recommend using an extension cable with this machine. If you must use an extension cable, only use it if absolutely necessary and only on a temporary basis. Extension cable cause voltage drop, which may damage electrical components and shorten motor life. Voltage drop increases as the extension cable size gets longer and the cable size gets smaller. Any extension cord used with this machine must contain a ground wire, match the required plug and receptacle,
Any extension cable used with this machine must contain a ground wire, match the required plug and receptacle

Minimum Gauge Size ..... 2.5mm^2 (14 AWG)

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

2.3.3 Electrical diagram*(Fig.2)*

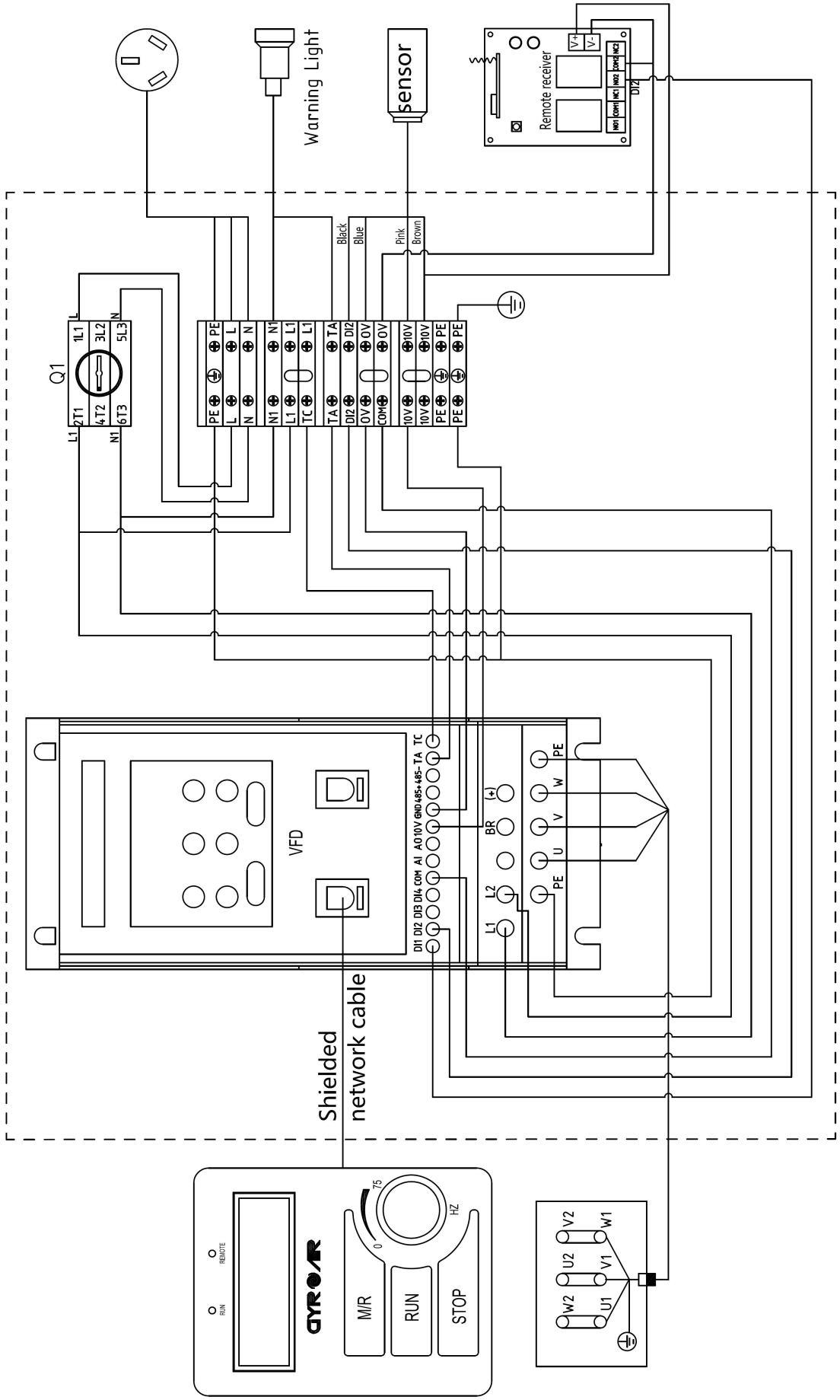

Fig.2

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 in good working order, properly adjusted and aligned. Cluttered areas and benches 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.
   Do not use outdoors.
5. Do not use this machine within the designated safety areas of flammable liquid stores or in areas where there may be volatile gases. Keep work area clean, dry, and well-lighted.
6. Keep children from reaching this machine.
7. Don't force the machine or the attachment to do a job for which it was not designed.
8. 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.
9. Do not use this machine if you are tired, your attention is wandering or you are being subjected to distraction.
10. If the work operation appears to be excessively noisy, wear ear protection.
11. 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.
12. WARNING ! – To reduce the risk of electric shock:
   Always unplug the machine during servicing.
13. WARNING ! – To reduce the risk of injury from moving parts :
   Always unplug before servicing.
14. Make sure the power switch is on the "OFF" position before plugging in.
15. Turn power ''OFF''. Don't leave until it comes to a complete stop.
16. Regularly inspect machine for damaged parts, loose bolts or any other conditions that may affect safe operation. Always repair or replace damaged parts before operating machine.
17. Keep the machine clean; it will enable you to more easily see any damage that may have occurred. Clean the machine with a damp soapy cloth if needs be, 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 safely out of the way.

2. INTENDED USE

Don't use this machine as a vacuum cleaner, avoid stones, nails, etc., as it may produce a spark and cause fire or explosion.

3. FIRE SUPPERSSION

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

4. REGULAR CLEANING

Regular 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 need a little assembly, almost can be used directly.

4.1 Transportation of machine

4.1.1 Transportation and store

Anti-rust and shock proofing measures have been taken during packing. The machine should be transported and stored in -25~55°C 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 proper transportation device according to the weight of the machine.**
- **Make sure the lifting capacity of transportation device is capable for the weight of the machine.**

4.1.2 Transportation before unpacking

As standard, the machine is packed in a robust wooden box. ***Fig.3*** shows the method can be used to transport the packing box.

Fig.3

4.1.3 Confirmation after unpacking

When open the packing box, please pay attention to the following items. If you have any questions, please contact directly with us.

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

4.1.4 Transportation after unpacking

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

4.2 Unpacking

This machine was carefully packaged for safe transportation, remove the package materials from your machine and inspect it. If you find the machine damaged, please immediately call Customer Service for advice.

Save the containers and all packing materials for possible inspection by the carrier or its agent. Otherwise, filing a freight claim can be difficult.

When you are completely satisfied with the condition of your shipment, inventory the contents.

Inventory:

The following is a description of the model components shipped, lay the components out to inventory them.

NOTICE

If you can't find an item on this list, check the mounting location on the machine or examine the packaging materials carefully. Occasionally we pre-install certain components for shipping purposes.

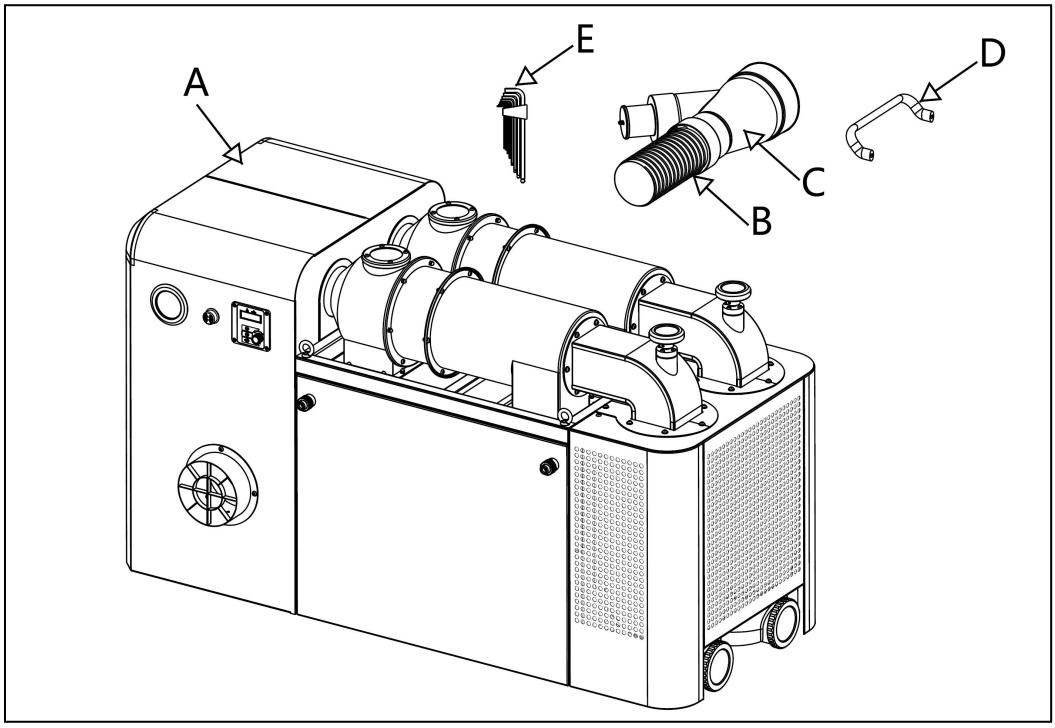

Fig.4

Box Contents*(Fig.4)*:

A. Machine(1)
B. Φ100mm x 2m long flexible hose (1)
C. Dust extractor adaptor (1)
D. Handel(1)
E. Tools(1 set)

All other parts except main unit are positioned in the dust collection box. Open the front door and get them.

4.3 Positioning the machine *(Fig.5)*

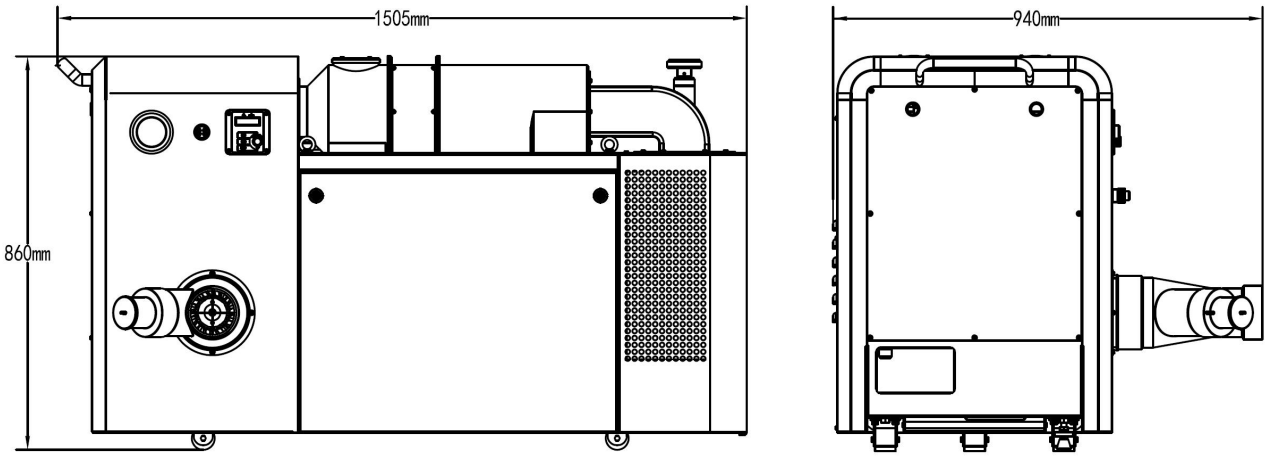

Fig.5

The machine should be placed at least 0.5 meter (18 inches) away from the wall to ensure that the motor heat dissipation is good.

4.4 Assembly

4.4.1 Moving & Placing Base Unit

⚠WARNING

This machine is very heavy, serious personal injury will 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!

1. Remove the package box, keep the base unit on the pallet. As ***Fig.6***

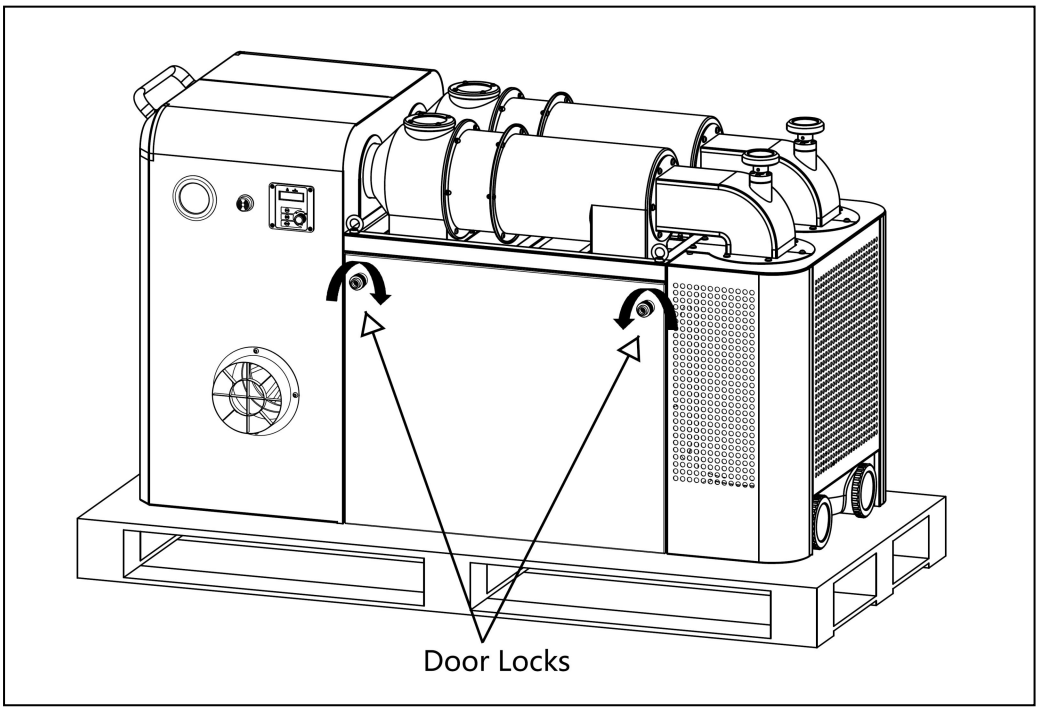

Fig.6

2. Rotating the knobs as arrow indicated ***(see Fig.6)*** to open the door. Then release the dust bin ***(see Fig.7)*** , you can slide the dust bin out.

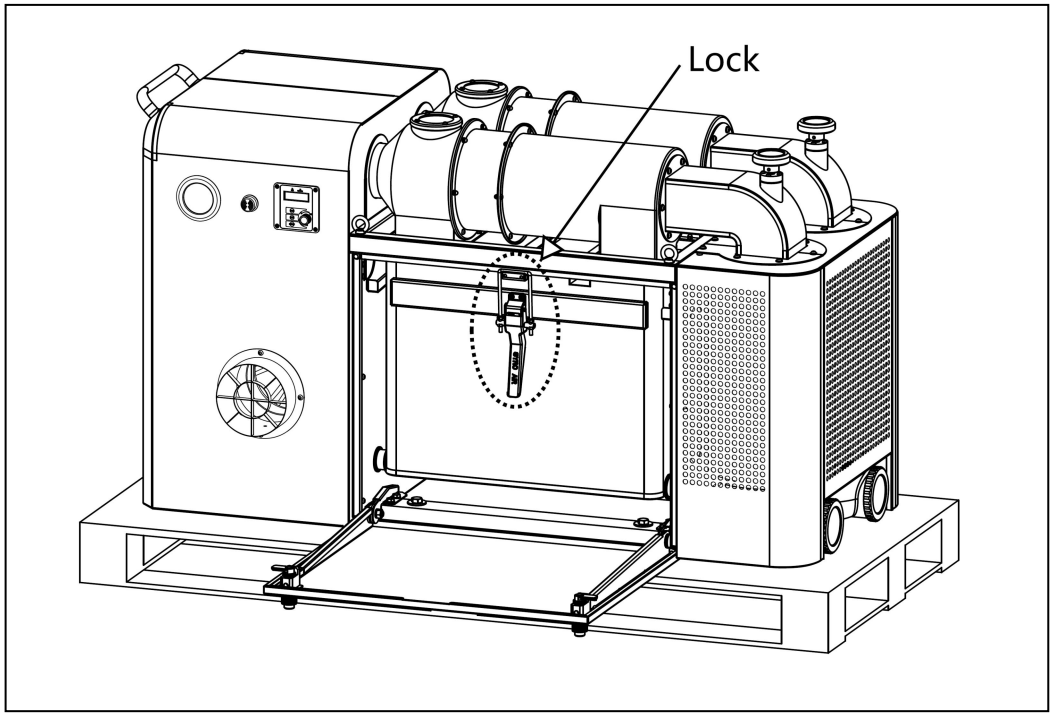

Fig.7

3. After you sliding out the bin, you need to remove transportation screws.

Step 1: As ***Fig.8*** indicated, you can find four Hex head screws at the bottom, remove these screws.

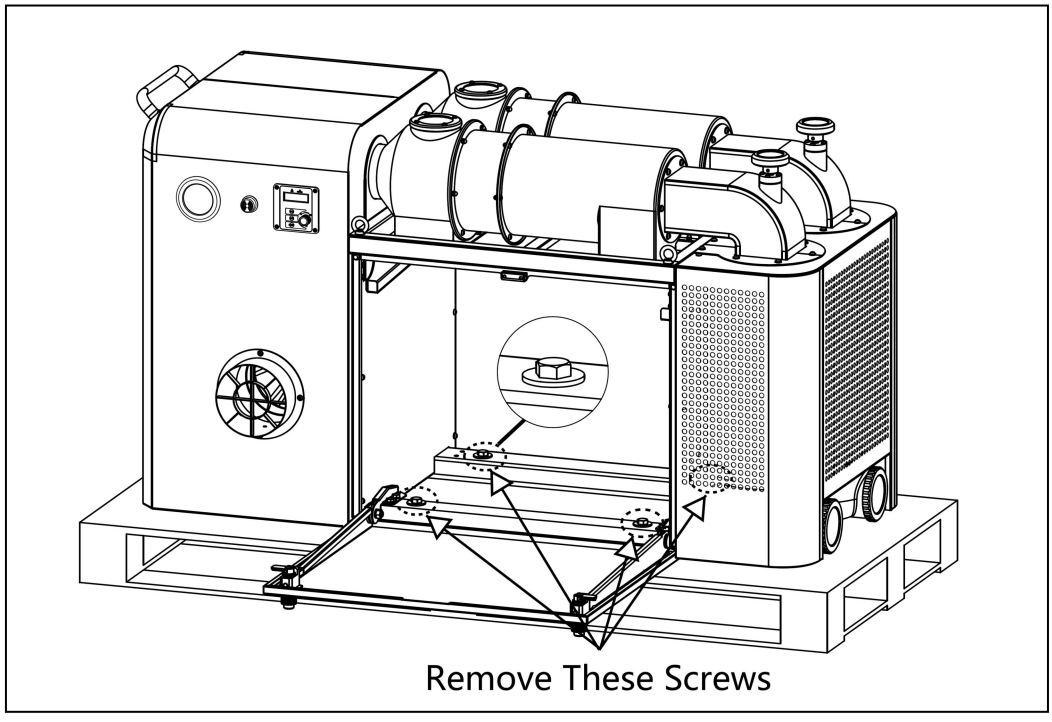

Fig.8

Step 2: As ***Fig.9*** indicated, at the bottom, you can find two support legs, turn the red handles to raise legs up about 25mm (1 inch).

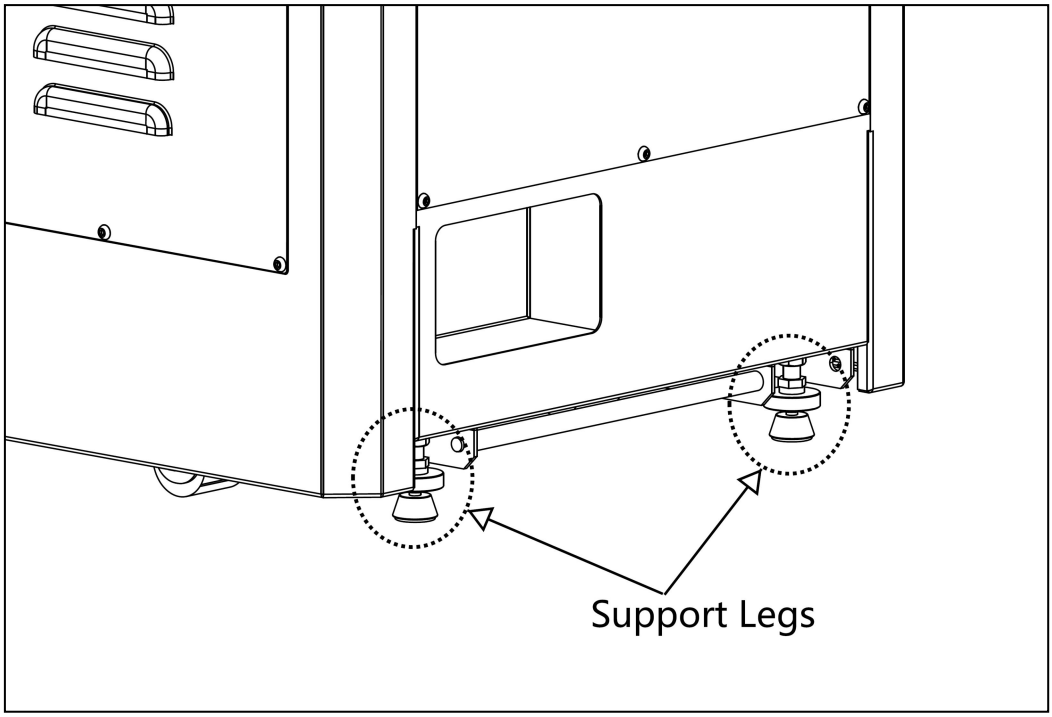

Fig.9

4. Use four eyebolts ***(see Fig.10)*** to lift this machine and remove the pallet.

Fig.10

5. Install the handle as Fig.11. (Side cover plate need to be removed.).
   Re-install the dust bin.

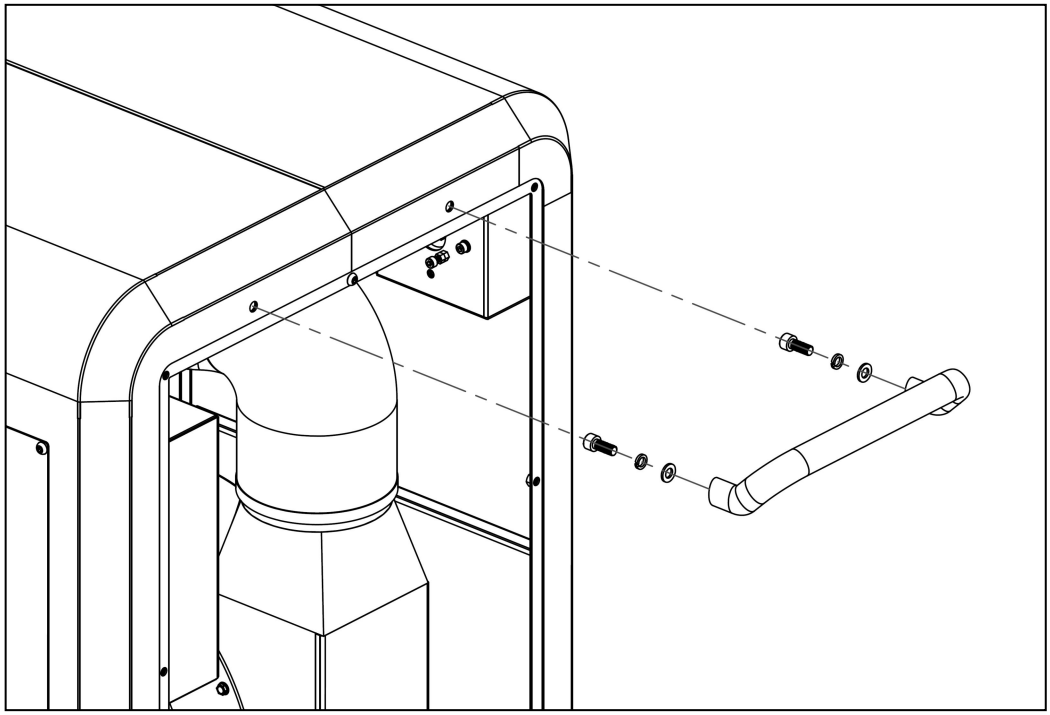

Fig.11

6. When the equipment is in place, turn the red handles (see *Fig.9*) to make the support legs touch the ground.

4.4.2 Installation of dust extractor adaptor

Open the front door and pull out the dust bin, take out the dust extractor adaptor and fix the dust extractor adaptor to the main unit. as ***Fig.12.***

2''(50mm), 4''(100mm) and 6'' (150mm) hoses can be used, see ***Fig.12.***
When you choose 6''(150mm) hose, connect hose to the main unit directly.

When you choose 4'' (100mm) hose and 2'' (50mm) hose, install dust extractor adaptor to the main unit first. Then connect hose to the dust extractor adaptor. If you need to connect two 4'' (100mm) hoses, you should add a 4'' (100) port, which needs additional purchase.

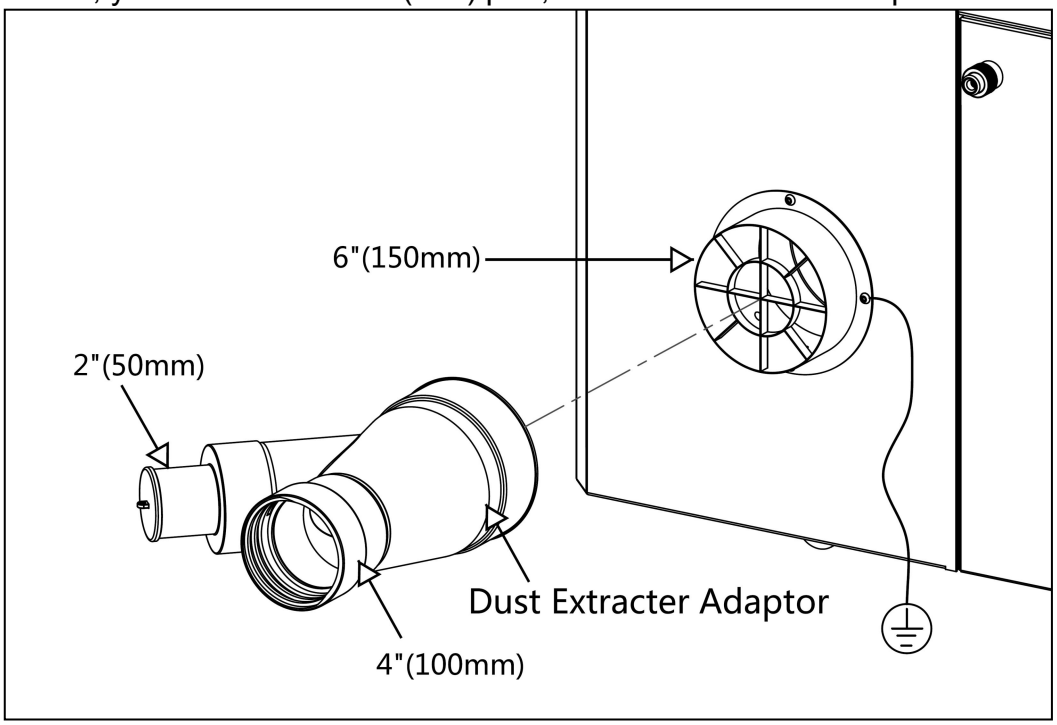

Fig.12

Grounding:

Since plastic hose is abundant, relatively inexpensive, easily assembled and air tight, it is a very popular material for conveying dust. However, plastic flex-hose and plastic duct is an insulator, and dust particles moving against the walls of the plastic hose create a static electricity build up. This charge will build until it discharges to a ground. If a grounding medium is not available to prevent static electrical build up, the electrical charge will arc to the nearest grounded source. This electrical discharge may cause an explosion and subsequent fire inside the system.
You need to lead out the spiral copper wire or the iron wire on the bellow for grounding. Also, utili zing the machine shell, you can ground the wires by connecting them to the set screws on the d ust port.

⚠WARNING

Ensure each machine is continuously grounded to the grounding terminal in your electric service panel.

5. Operations

5.1 The operating and instructions of electrical components（*Fig.13*）

A：**Power Switch:** Connect or disconnect the power.

B：**Control panel:**

RUN: Start this machine. the indicator light "RUN" is always on.

STOP: Stop this machine.

M/R: Manual and REMOTE control switch button, switch to REMOTE control state, the indicator "REMOTE" is always on.

Turn the knob to adjust the frequency from 40Hz-75Hz，minimum fan operating frequency 40Hz.

C. Buzzer: When the dust bin is full, the buzzer will sound

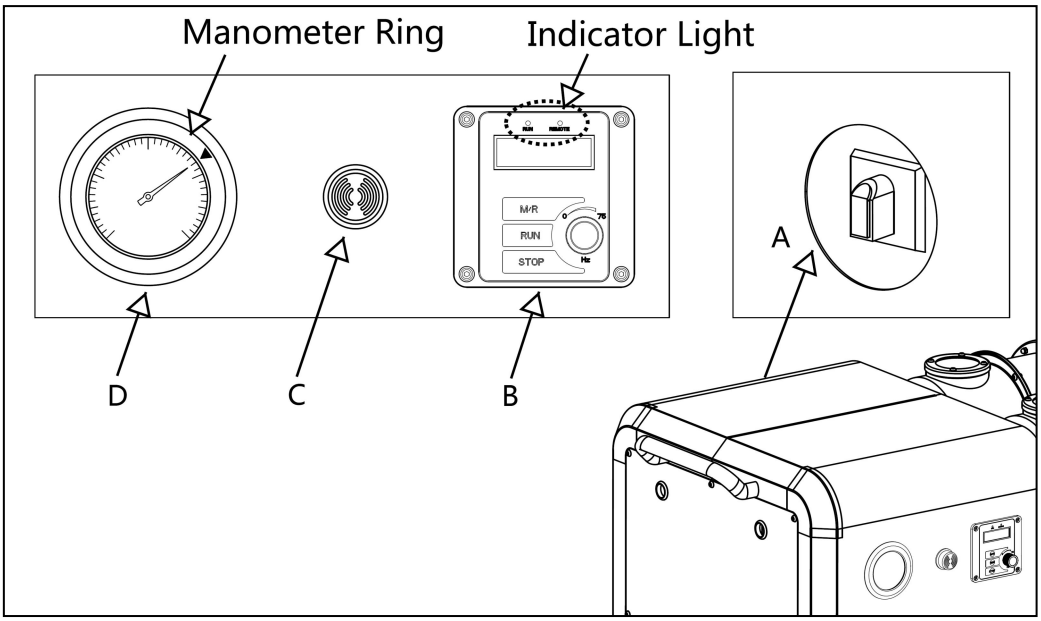

Fig.13

5.2 The operating of manometer（*Fig.13*）

D. Manometer:

This manometer is not used to measure the pressure, is mainly used to observe whether there is abnormal pressure fluctuations.

Every time, when you power this machine and adjust to the frequency that you needed, mark the manometer ring, make the “mark” match pointer.

If you find the reading has increased, there could be a blockage in the ducting system or extractor unit, check the following:

Check the hoses for blockages.

If you find the reading has decreased, check the following:

Check the hoses are secure, “NOT LOOSE”, which will lead to air leakages.

Check hoses for splits and cracks.

Usually you need to remove dust extractor adaptor to check whether it is blockage.

5.3 Clean the dust bin.

When the buzzer sounds, you should clean up the dust bin.

Rotate the knobs as the arrow indicates ***(see Fig.6)*** to open the door. Release the dust bin ***(see Fig.7)***, you can slide the dust bin out.

You should clear the dust bin every day.

5.4 General operation

Please follow these steps each time you start operating the machine:

1. Check the machine, make sure the dust bin is locked.
2. Connect the machine to the power 220V/1PH/60Hz.
3. Turn on power switch, the buzzer will sound and the screen of the control panel will be lighted.
4. Press the green button to start this machine, the initial frequency is 40Hz, you can adjust the frequency from 40Hz-75Hz. Press the red button to stop this machine.
5. When the collection box is full, the buzzer will sound, you can open the front door, pull out the dust bin and empty it.

NOTE:

The panel may appear Fault Code, when appear Fault Code, dust processor will stop, after troubleshooting, press the button "STOP" to cancel the fault code display. In majority cases, restart can eliminate the fault code.

The common faults code as shown in the table below:

Alarm Code	Fault	Probable Cause
Err02	Over-current during Speeding Up	1, Inverter output circuit is grounded or short circuit. 2, Speed up in too short time. 3, Motor short circuit
Err03	Over-current during Speeding Down	1, Inverter output circuit is grounded or short circuit. 2, Speed down in too short time. 3, Motor short circuit
Err04	Over-current in Constant Speed	1, Inverter output circuit is grounded or short circuit . 2, Motor short circuit. 3, Too long power cable
Err05	Over-voltage during Speeding Up	1, Input voltage is too high. 2, Speed up in too short time
Err06	Over-voltage during Speeding Down	1, Input voltage is too high. 2, Speed down in too short time
Err07	Over-voltage in Constant Speed	1, Input voltage is too high. 2, Speed up in too short time
Err09	Under-voltage	1.The input voltage of the inverter is not in the range required by the specification.
Err10	Inverter Overload	1, Motor is overloaded or clogged. 2, The fan doesn't work.
Err11	Motor Overload	1, Incorrect setting of the motor parameter 2, Motor is overloaded or clogged.
Err15	External Failure	1, Dust bin is full. 2, The connection of optoelectronic switch is loose. 3, Optoelectronic switch is broken.

6. Maintenance

⚠WARNING

Always disconnect power to the machine before doing maintenance. Failure to do this may result in serious personal injury.

Cleaning filter:

Turn two “handles” (see ***Fig.14***) right or left for several turns to clean the filter.
Once a week.

Deep clean:

Connect inlet port and cleaning port via 100mm flexible hose as ***Fig. 14***. Run machine at 75Hz, and keep turning handle H for 5-10 seconds. Repeat same process for another cleaning port.
Once 3 weeks.

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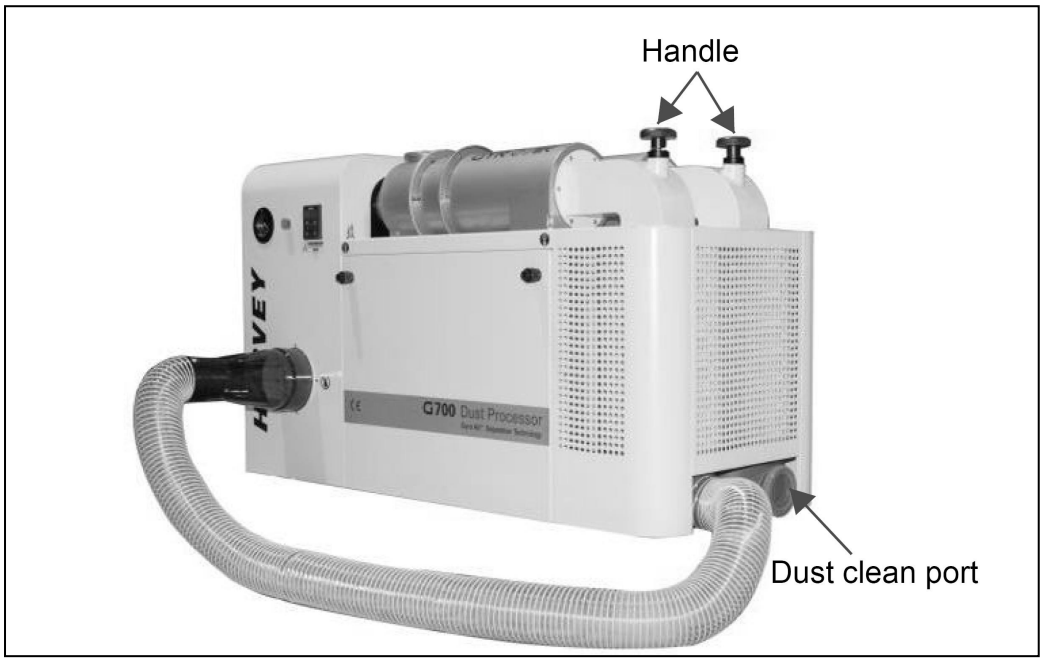


Fig.14

Cleaning the gasket:

There is a sealing strip at the top of the dust bin, in order to maintain the seal and extend the life of the sealing strip, you must keep it clean.
Wipe down each time after emptying dust bin

7. Trouble shooting guide

7.1 Electrical and motor problems

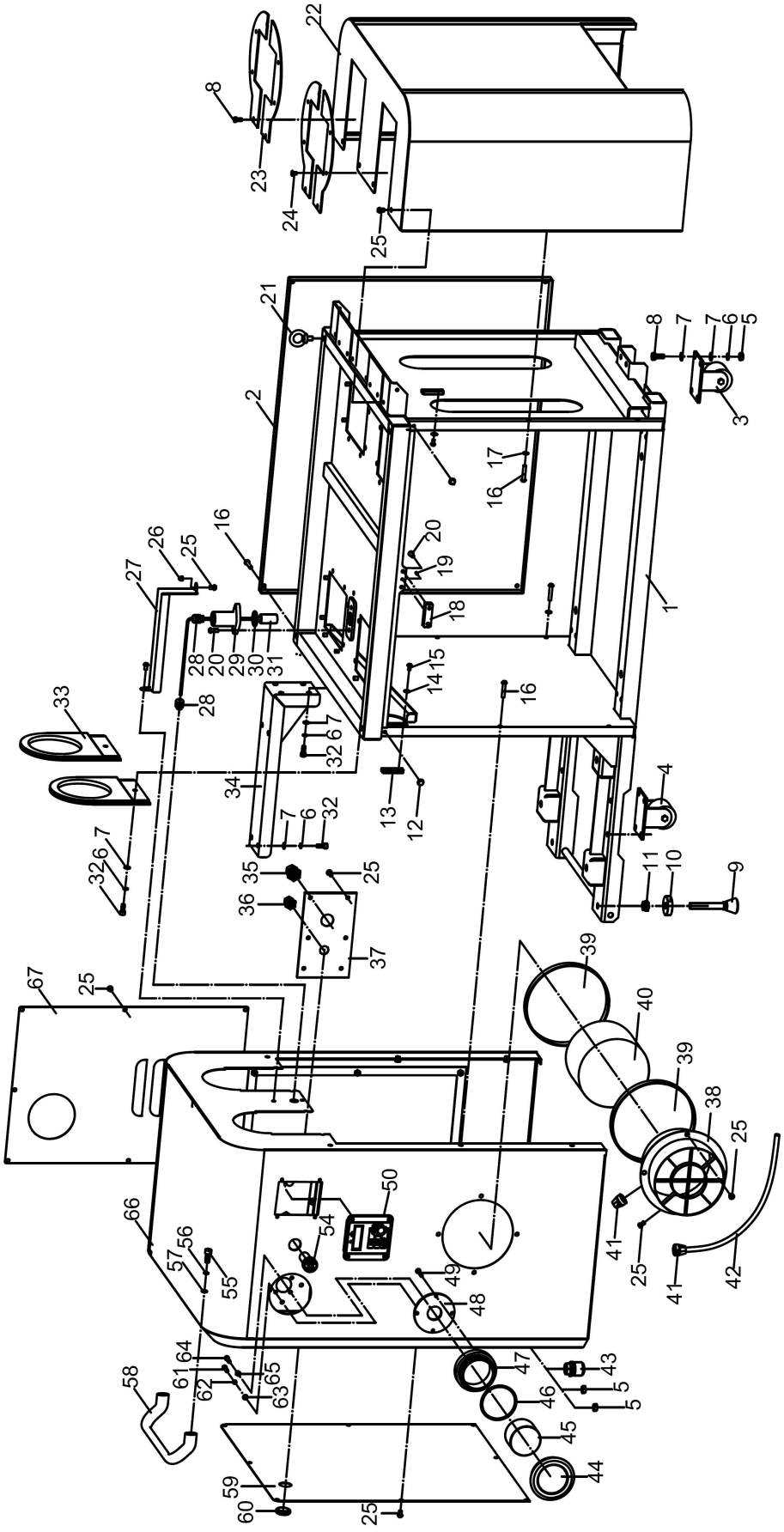
Trouble	Possible Cause	Correction
Machine will not start.	1. Cord unplugged from the power source. 2. Cord damaged. 3. Machine circuit breaker has tripped. 4. Motor is at fault. 5. The dust bin is full. 6. Inverter error. 7. Low voltage.	1. Plug in power cord. 2. Replace cord. 3. Let motor cool and improve ventilation. 4. Test/ repair /replace. 5. Clean the dust bin. 6. Cut off the power and repower. 7. Check power line for proper voltage.
Motor will not start: fuse blows or circuit breaker trips	1. Too many machines on shared circuit. 2. Short circuit in line cord or plug. 3. Short circuit in motor or loose connections. 4. Incorrect fuse or circuit breaker in power line.	1. Connect dust collector to dedicated circuit. 2. Inspect cord or plug for damaged insulation and shorted wires. 3. Inspect all connections on motor for loose or shorted terminals or worn insulation. 4. Install correct fuse or circuit breaker at power source.
Motor overheats	1. Motor overloaded. 2. Air circulation through motor is restricted.	1. Reduce load on motor. 2. Clean motor fan with compressed air to restore normal air circulation.
Motor stalls, resulting in blown fuses or tripped circuit	1. Motor overloaded. 2. Short circuit in motor or loose connections. 3. Low voltage. 4. Incorrect fuse or circuit breaker in power line.	1. Reduce load on motor. 2. Inspect connections on motor for loose or shorted terminals or worn insulation. 3.Correct low voltage conditions. 4. Install correct fuse or circuit breaker.
Loud noise or vibrations coming from machine	1. Loose fasteners. 2. Motor fan is hitting the cover. 3. Impeller is damaged.	1. Inspect machine and tighten all fasteners. 2. Tighten fan or shim cover. Replace fan cover if damaged. 3. Replace impeller.

7.2 Performance problems

Poor performance; lack of suction.	1. Filters are dirty. 2. There is a restriction in the duct line. 3. The machine is too far away from the point of section, or there are too many sharp bends in the ducting. 4. The lumber is wet, and the dust is not flowing smoothly. 5. There is a leak in the ducting, or a series of small leaks, or too many open ports. 6. The ducting and ports are incorrectly sized. 7. Too many open branch lines at one time may cause a velocity drop in the main line.	1. Clean filters. 2. Remove dust line from collector inlet and unblock the restriction in the duct line. A plumbing snake may be necessary. 3. Relocate the machine closer to the suction, and rework ducting without sharp bends. 4. Process lumber with less than 20% moisture content. 5. Rework the ducting to eliminate all leaks. Close dust ports for lines not being used. 6. Reinstall correctly sized ducts and fittings. 7. Close dust ports for lines not being used.
Dust blows into the air from the machine.	1. Duct clamps or dust collection bags are not properly clamped and secured. 2. Sealing strips are loose or damaged.	1. Re-secure ducts and dust collection bag, making sure duct and bag clamp are tight. 2. Retighten all mounting and sealing points, replace damaged sealing strips.

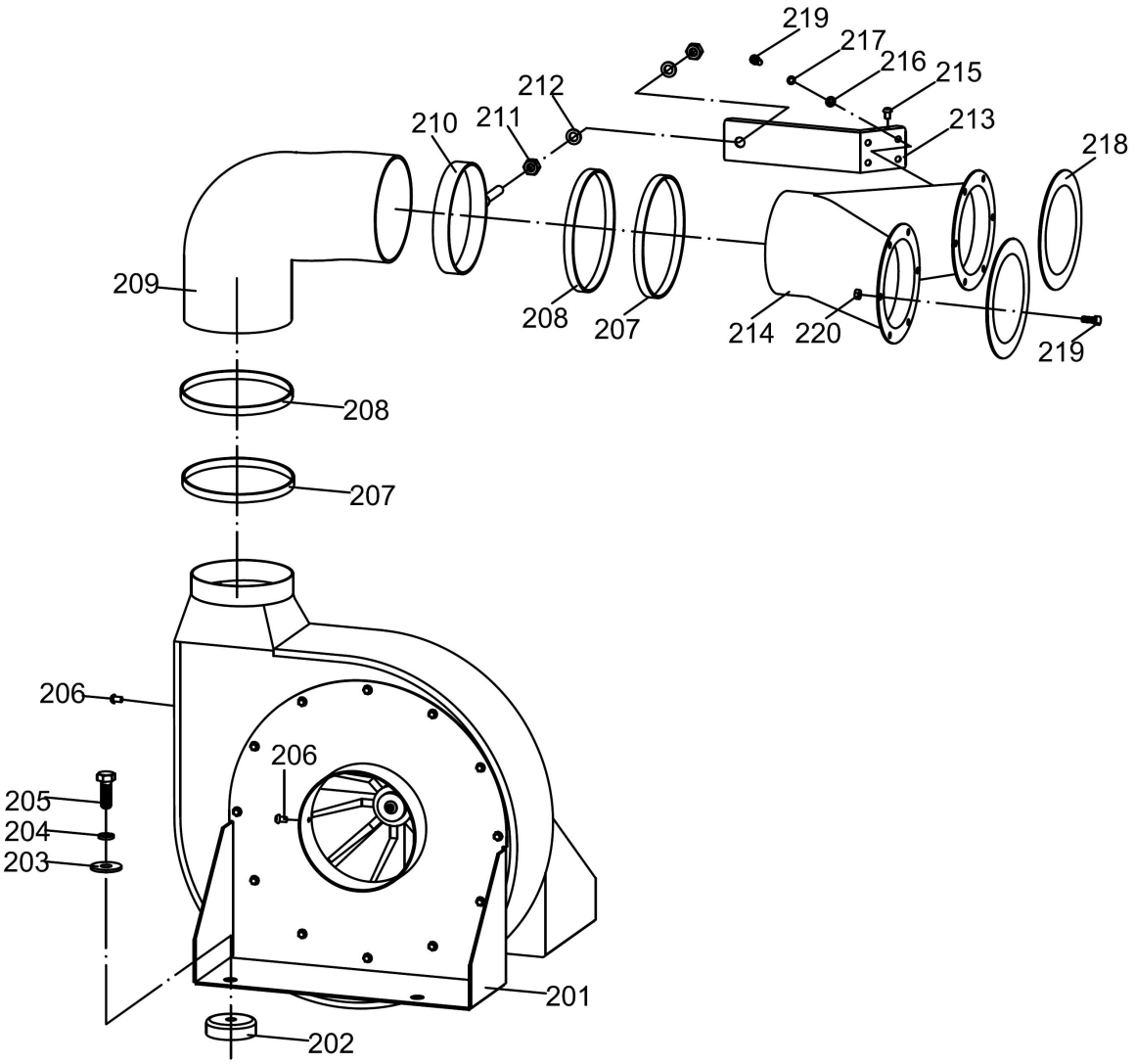
8. Breakdown & Part List

Cabinet Assembly Exploded View



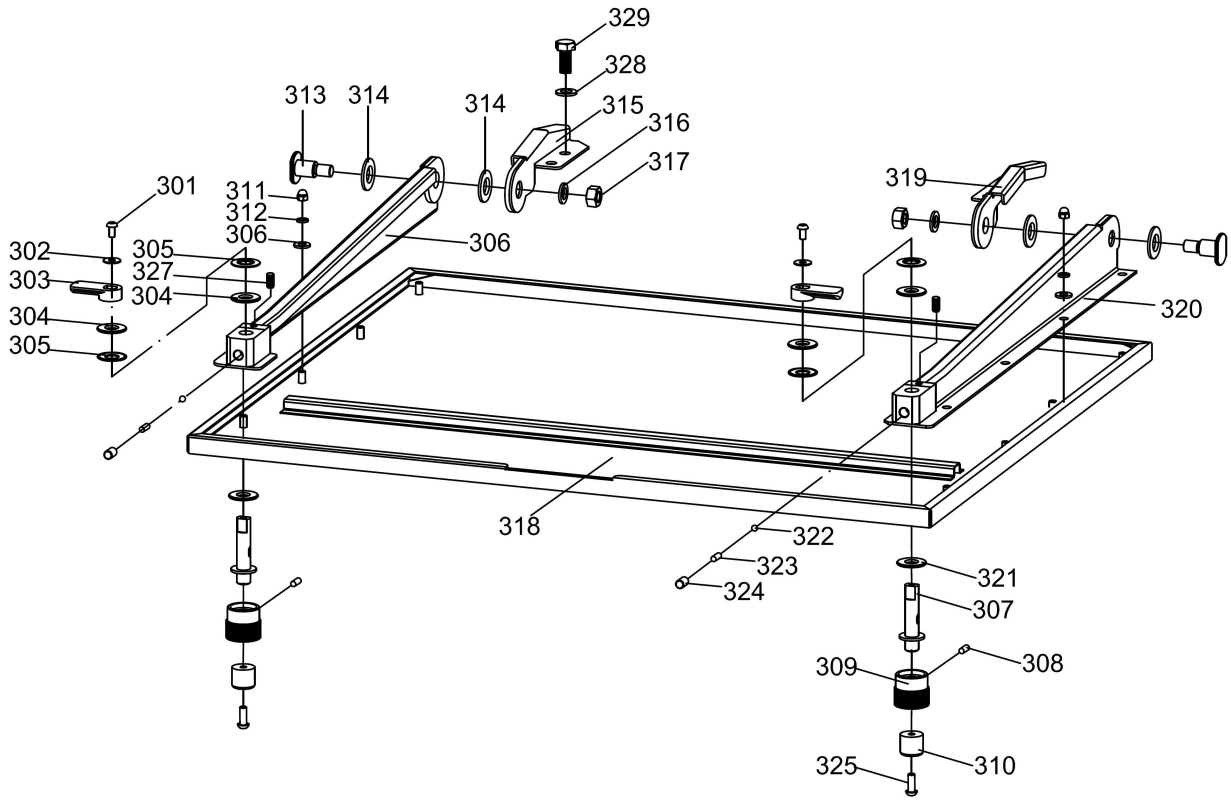
REF	DESCRIPTION	QTY	REF	DESCRIPTION	QTY
1	Main base	1	33	Rubber retainer	2
2	Back cover	1	34	Electrical box bracket	1
3	Mecanum wheel	1	35	Strain relief M25-1.5	1
4	Directional wheel	2	36	Strain relief PG11	1
5	Hex screw M6	14	37	Button box cover	1
6	Spring washer 6	24	38	Inlet 6"	1
7	Flat washer 6	34	39	Clamp 6”	2
8	Hex bolt M6x20	16	40	Corrugated pipe 6"	0.2m
9	Foot	2	41	Fast interface M14x1.5	2
10	Adjust handle for foot	2	42	Pneumatic hose 8mm	0.5m
11	Lock nut M12	2	43	Strain relief PG13.5	1
12	Cushioning	2	44	Manometer cover	1
13	Lock block	2	45	Manometer	1
14	Flat washer 5	4	46	O- ring 3.55x69	1
15	Pan HD screw M5x10	4	47	Manometer block	1
16	Pan HD screw M6x25	12	48	Manometer plate	1
17	Grounding washer 6	2	49	Pan HD screw M5x30	2
18	Locking hook	1	50	Control panel	1
19	Set screw M4x6	1	54	Buzzer	1
20	Pan HD screw M6x16	4	55	Cap screw M8x20	2
21	Eye bolt M8x13	4	56	Spring washer 8	2
22	Left housing	1	57	Flat washer 8	2
23	Filter cover	4	58	Handle	1
24	Tapping screw ST4.2x13	10	59	Side cover	1
25	Pan HD screw M6x10	32	60	Retainer	2
26	Acorn nut M6	1	61	Cap screw M5x16	2
27	Cable guard	1	62	Spring washer 5	2
28	Strain relief PG7	2	63	Flat washer 5	2
29	Fixed block	1	64	Cap screw M5x20	4
30	O- ring 3.55x23.5	1	65	Hex screw M5	4
31	Photoelectric switch	1	66	Right housing	1
32	Cap screw M6x16	10	67	Motor cover	1

Blower Assembly Exploded View



REF	DESCRIPTION	QTY	REF	DESCRIPTION	QTY
201	Centrifugal blower	1	211	Hex screw M10	2
202	Cushioning	4	212	Flat washer 10	2
203	Flat washer 12	4	213	Adjust bracket	1
204	Spring washer 12	4	214	Y separator	1
205	Hex bolt M12x40	4	215	Pan HD screw M5x10	21
206	Pan HD screw M6x10	2	216	Flat washer 6	4
207	Sealing ring	2	217	Spring washer 6	4
208	Clamp 5”	2	218	Gasket 3#	2
209	Corrugated pipe 5"	0.5m	219	Cap screw M6x16	10
210	Adjust ring	1	220	Hex screw M6	6

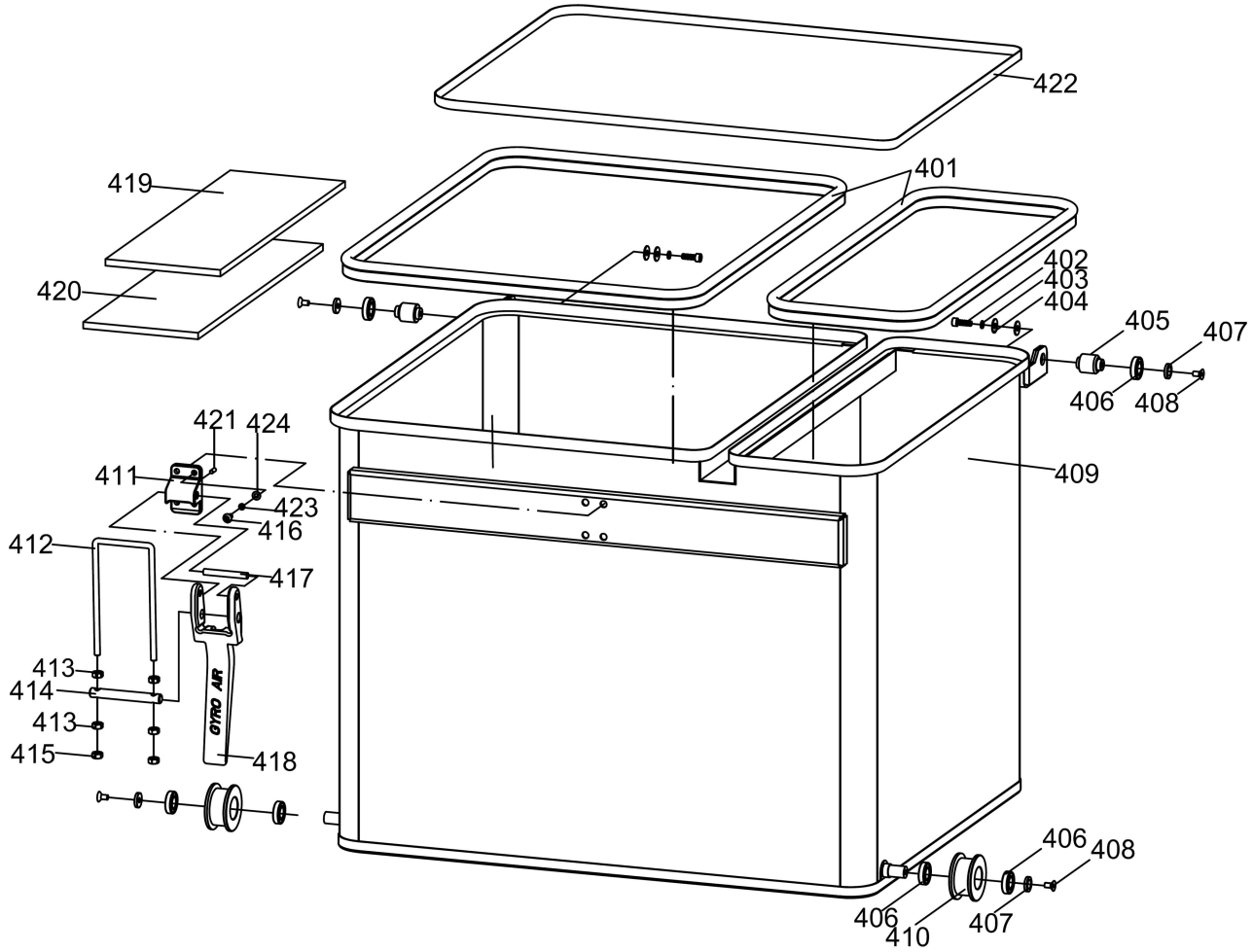
Front door Assembly Exploded View



REF	DESCRIPTION	QTY
301	Pan HD screw M5x10	2
302	Flat washer 5	2
303	Locking dog	2
304	Special gasket	4
305	Disc spring	4
306	Left guide rail	1
307	Lock shaft	2
308	Set screw M4x8	2
309	Lock knob	2
310	Rubber pad	2
311	Acorn nut M6	8
312	Spring washer 6	8
313	Rotating shaft	2
314	Nylon spacer 14	4
315	Support seat for left guide rail	1

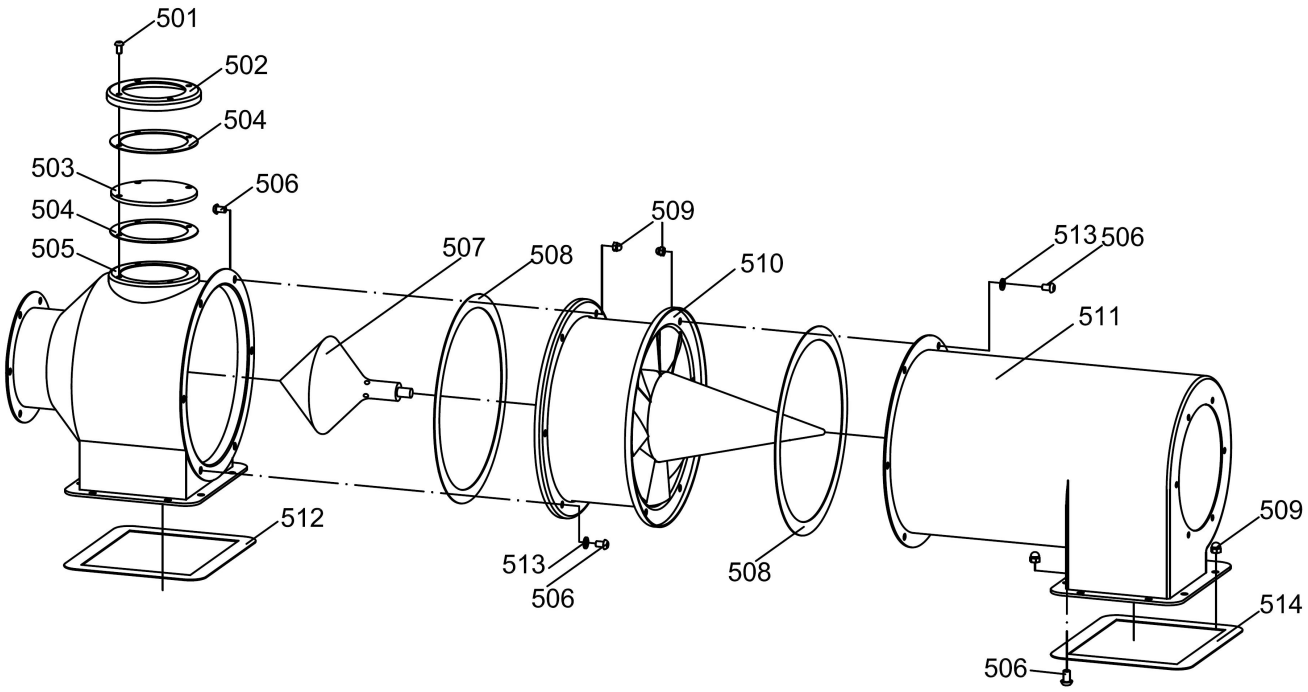
REF	DESCRIPTION	QTY
316	Flat washer 10	2
317	Lock nut M10	2
318	Front cover	1
319	Support seat for right guide rail	1
320	Right guide rail	1
321	Nylon spacer 12	2
322	Steel ball S6	2
323	Spring	2
324	Set screw M8x16	2
325	Cap screw M5x20	2
326	Flat washer 6	8
327	Set screw M6x25	2
328	Flat washer 8	2
329	Hex bolt M8x20	4

Dust Bin Assembly Exploded View



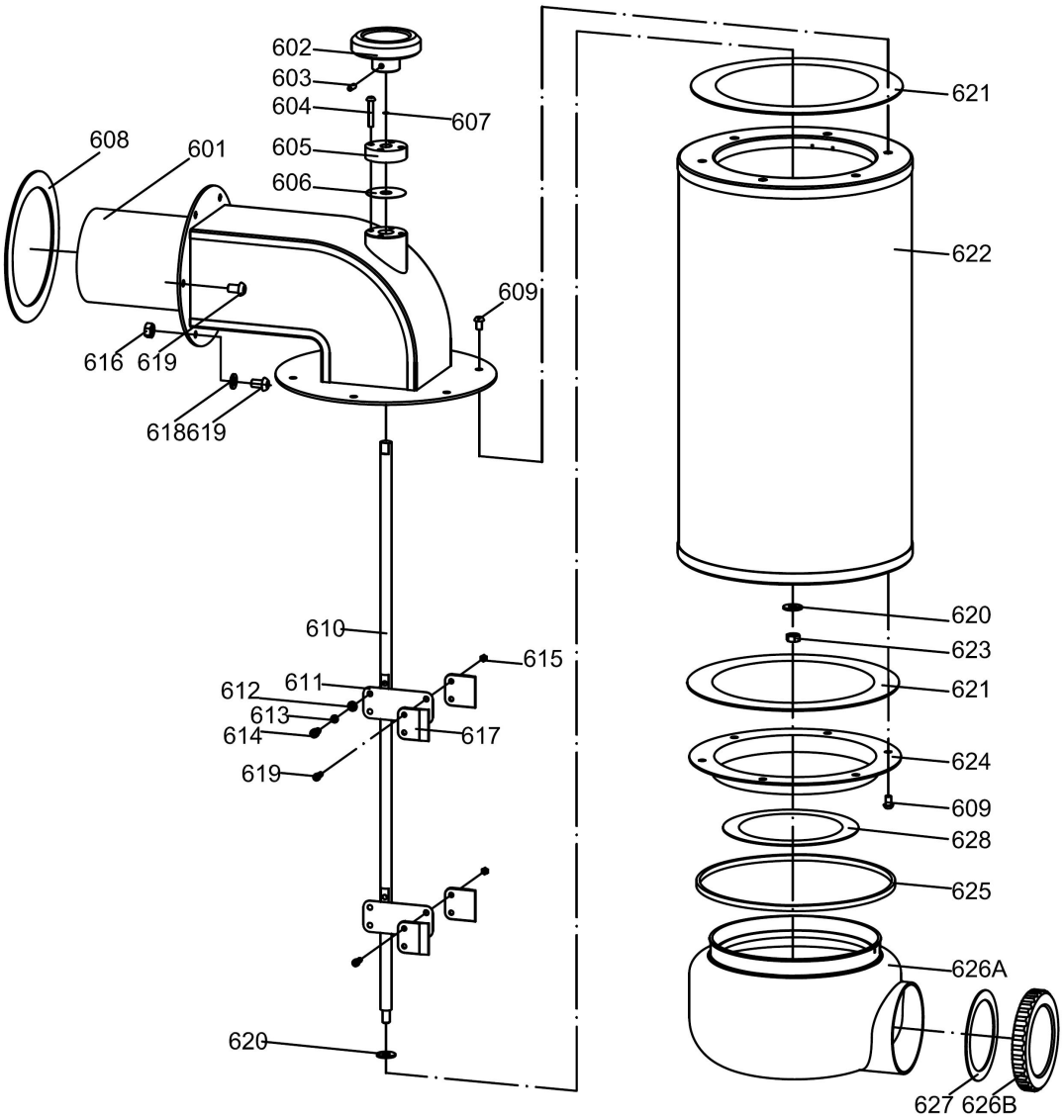
REF	DESCRIPTION	QTY	REF	DESCRIPTION	QTY
401	Sealing strip 209-0220	3.25m	413	Hex screw M6	4
402	Cap screw M5x16	2	414	Lock pin	1
403	Spring washer 5	2	415	Lock nut M6	2
404	Flat big washer 5	4	416	Pan HD screw M6x16	4
405	Lock shaft	2	417	Revolving bar	1
406	Bearing 69012	6	418	Lock handle	1
407	Lock washer	4	419	Plastic bag 750x910	1
408	Flat HD screw M5x10	4	420	Plastic bag 620x650	1
409	Dust box	1	421	Set screw M5x10	1
410	Roller for dust box	2	422	Elastic cord	1.6m
411	Lock block	1	423	Spring washer 6	4
412	U type bolt	1	424	Flat big washer 6	4

Separation Assembly Exploded View



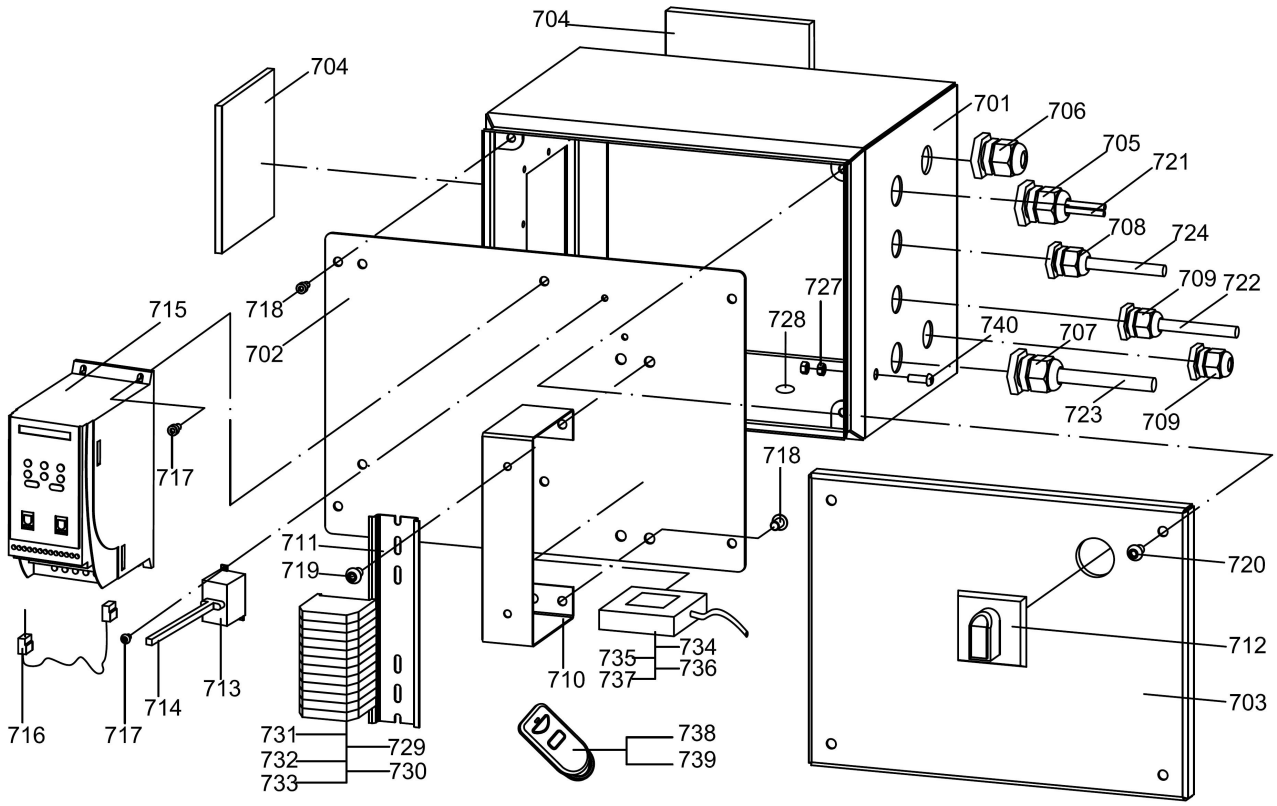
REF	DESCRIPTION	QTY	REF	DESCRIPTION	QTY
501	Pan HD screw M5x16	4	508	Gasket 2#	2
502	Window cover	1	509	Acorn nut M6	42
503	Window	1	510	Rear separate core	1
504	Gasket 1#	2	511	Rear separate cover	1
505	Front separate cover	1	512	Gasket 6#	1
506	Pan HD screw M6x10	28	513	Grounding washer 6	2
507	Front separate core	1	514	Gasket 10#	1

Filter Assembly Exploded View



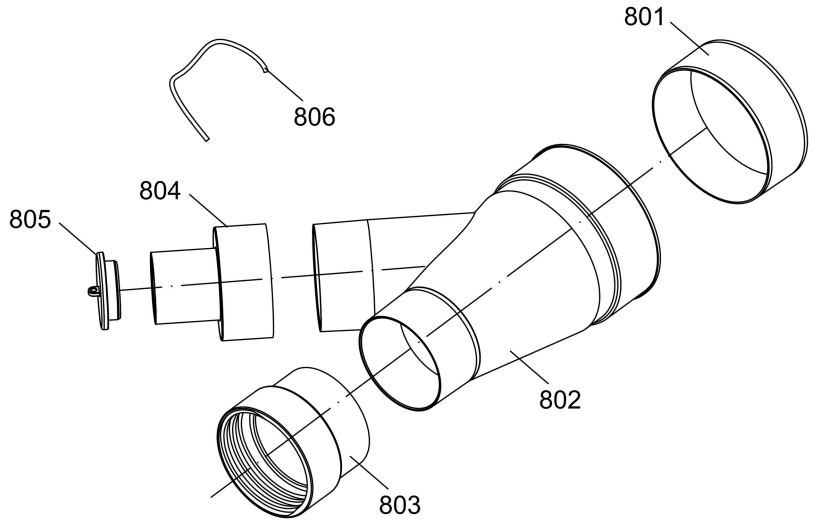
REF	DESCRIPTION	QTY	REF	DESCRIPTION	QTY
601	Filter connector	1	616	Hex screw M6	2
602	Clean handle	1	617	Rubber plectrum	4
603	Set screw M5x10	1	618	Grounding washer 6	2
604	Pan HD screw M5x20	4	619	Pan HD screw M6x16	12
605	Seal cover for clean rod	1	620	Nylon spacer 8	2
606	Gasket 5#	1	621	Gasket 11#	2
607	O- ring 2.65x11.8	1	622	Filter	1
608	Gasket 4#	1	623	Lock nut M8	1
609	Pan HD screw M6x10	12	624	Fixing ring for dust box	1
610	Clean rod	1	625	Clamp 7”	11
611	Sring plectrum	2	626A	Dust box	1
612	Flat washer 5	4	626B	Cover for dust box	1
613	Spring washer 5	4	627	Gasket 9#	1
614	Cap screw M5x10	8	628	Gasket 8#	11

Electric box Exploded View



REF	DESCRIPTION	QTY	REF	DESCRIPTION	QTY
701	Electrical box	1	721	Yellow cable 2.5x1C	0.6m
702	Electrical installation plate	1	722	Cable 1.5x2C	1m
703	Cover for electrical box	1	723	Cable 2.5x4C	0.6m
704	Heat-sink window	2	724	Power cable 3C	3m
705	Strain relief PG13.5 double hole	1	725	Blue cable 1x1C	1.8m
706	Strain relief M25-1.5	1	726	Black cable 2.5x1C	0.5m
707	Strain relief PG13.5	1	727	Hex screw M6	2
708	Strain relief PG11	1	728	Grounding mark	1
709	Strain relief PG9	2	729	Terminal MA 4/6.P	3
710	Bracket	1	730	Terminal cover	3
711	Snap-gauge 35x8	0.14m	731	Short-circuiting bar	0.5
712	Disconnecting switch handle	1	732	Terminal MA 2.5/5	9
713	Disconnecting switch	1	733	Terminal MA 4/6	2
714	Disconnecting switch rod	1	734	Wireless receiving module	1
715	VFD MD200S1.5B	1	735	Lable for Wireless receiving module	1
716	Network cable	1	736	Double-side tap	1
717	Cap screw M4x8	6	737	Cable 0.5x3C	0.5m
718	Cap screw M6x10	8	738	Wireless remote control	1
719	Cap screw M5x8	2	739	GYRO AIR LOGO	1
720	Pan HD screw M6x25	4	740	Pan HD screw M6x20	1

Y Adapter Exploded View



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	806	Chain	1

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