

Laguna takes pride in our products and stands behind them with continuing service and support for our customers. Your Laguna machine was designed to bring a new dimension of productivity to your shop.

Before using your machine for the first time, learn how to use it. This manual covers a step-by-step process of assembly and machine operation. If you have any questions, this manual will provide answers.

We do our best to thoroughly document every product that we sell for customer reference. Several files are compiled to cover all components of a machine.

- Several machines may be covered by one manual.
- Many machines sold by Laguna include components with independent owners' manuals.

Owner's Manuals

Owners' manuals will guide the purchasing party

- Warranty - All information about warranty, how to file a warranty claim, and how-to receiver support.
- Safety - The safety related rules and guidelines set forth by the manufacturing parties to be strictly followed in the operation of the machine or product.
- Set Up - Guidelines to set-up the product from state of shipping to state of operation.
- Operation - Procedure based sections covering the basic process that the machine or product was designed to do.
- Maintenance - Maintenance Schedule and procedures that must be followed.
- Troubleshooting - Procedure based help sections to repair an out of service machine or product.
- Parts - A list of replacement parts offered for the Machine. This section may not include all the parts included with the purchase – if the part was not included in this section then it will be available from a third party.
- Schematics – Line drawings of electrical, pneumatic, and dimensional configurations of the machine or product.

Specification Sheets

Specification Sheets will aid in proper machine selection and serve as a reference for the purchasing party. For convenience, the specifications sheet has been included in the end of this manual.

- Several machines may be covered by one manual.
- Description - A detailed description of why the machine was developed,
- General Specifications - All specifications that are common to all machine categories.
- Category Specifications - Specifications unique to the specific category of the machine.
- Dimensional Drawing
- Capacities Drawing

Videos

In most cases a video is the best media to cover a setup or help topic.

All videos made by Laguna are uploaded and stored to youtube.com where they are then linked to websites.

<https://www.youtube.com/user/LagunaTools>

Websites

Our Website holds all information about any product. Check it often for any updates to your machine.

As innovation happens, that is where you will find it.

lagunatools.com
lagunatools.ca
lagunatools.uk
supermaxtools.com
lagunacleanair.com
lagunalathe.com

The information contained in this publication was correct at the time of print. In the interest of continuous innovation, we reserve the right to change specifications, design or included equipment without notice or obligation. No part of this publication may be reproduced, transmitted, or translated into any language in any form by any means without our written permission. Errors and omissions may be current.

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LAGUNA UK

Laguna Tools Uk
Unit A, Cedar Court
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LE67 1TU



Woodworking machinery at its best!

Declaration of Conformity for CE Marking

Charnwood Machinery Ltd
Cedar Court
Walker Road
Bardon Hill
Leicestershire
LE67 1TU
England

Declare that Air Cleaner
Model A Flux 12

Conforms with the following Directives:

Machinery Directive 2006/42/EC
Low Voltage Directive 2014/35/EU

And further conforms with the following EU harmonized standard;

EN ISO 12100:2010, EN 60204-1:2006+A1:2009+AC:2010

I hereby declare that equipment named above has been tested and found to comply with the relevant sections of the above referenced specifications. The machinery complies with all essential requirements of the directive.

Signed: Richard Cook

Dated: 14/11/2018

Location: Leicestershire

Richard Cook
Director



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Website: www.charnwood.net VAT GB 290 2170 80
Charnwood Machinery Ltd, Cedar Court, Walker Road, Bardon Hill,
Leicestershire, LE67 1TU, England
Registration No:1316450

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Warranty & Support

This machine is covered by a warranty and your dealer can answer any questions you may have. Additionally, we will always be here to offer support, service information, and product supplies and services.

Laguna Tools Uk
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Walker Road
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Leicestershire
LE67 1TU

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E Mail : sales@lagunatools.uk

Every product sold is warranted to be free of manufacturers' defective workmanship, parts, and materials. For any questions about this product, the intended use or what it was designed for, customer service, or replacement parts – please reach out to our customer service department.

Who is Covered

The applicable warranty covers only the initial purchaser of the product from the receipt date. The original purchaser must present the original receipt as proof of purchase.

What Is Covered

Any part, determined by Laguna Tools®, to have a defect will be repaired or replaced (and shipped), without charge. It is required that the defective item/part be returned to Laguna Tools® with the complaint and proof of purchase in the original packaging that it was received. In the event the item/part is determined to be void of this warranty, the customer will be responsible for the cost to replace the item/part and all related shipping charges.

Warranty Limitations

This limited warranty does not apply to natural disasters, acts of terrorism, normal wear and tear, product failure due to lack of maintenance or cleaning, damage caused by accident, neglect, or lack-of/inadequate dust collection. The warranty may be voided against proof of misuse/abuse, damage caused where repair or alterations have been made or attempted by others, using the product for purposes other than those described as intended use (unless

with consent by Laguna Tools®), modification to the product, or use with an accessory that was not designed for the product. It is the responsibility of the user to understand basic woodworking machinery settings and procedures and to properly maintain the equipment in accordance with the standards provided in this manual.

Length of Warranty

1 year electrical and mechanical

Aside from being free of defects upon receiving, consumable parts, like cutters and abrasives, are not covered by this warranty unless otherwise stated by Laguna Tools®. These parts are designed to be used at the expense of the operator and are available for replacement or inventory purchase.

Shipping Damage

Laguna Tools® and the purchasing customer is not responsible for damage or loss caused by a freight company or other circumstances not in the direct control of Laguna Tools®.

All shipping related claims for loss or damaged goods must be made to Laguna Tools within twenty-four hours of delivery.

Safety

Read and understand all warnings and operation instructions before using any tool or equipment. Always follow basic safety precautions to reduce the risk of personal injury. Improper operation, maintenance or modification of tools or equipment could result in serious injury and property damage. There are certain applications for which tools and equipment are designed. This product should NOT be modified and/or used for any application other than for which it was designed.

It is important for you to read and understand this manual. The information it contains relates to protecting your safety and preventing problems.

Safety Guidelines - Definitions

This manual contains information that is important for you to know and understand. This information relates to protecting your safety and preventing equipment problems. To help you recognize this information, we use the symbols below. Please read the manual and pay attention to these sections.

⚠ DANGER! Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

⚠ WARNING! Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

⚠ CAUTION! Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

TECH TIP Indicates a helpful tip from our technical staff.

Important Safety Instructions

⚠ WARNING! Read and understand all warnings and operating instructions before using this equipment. Failure to follow all instructions listed below, may result in electric shock, fire, and/or serious personal injury or property damage.

Woodworking can be dangerous if safe and proper operating procedures are not followed. As with all machinery, there are certain hazards involved with the operation of the product. Using the machine with respect and caution will considerably lessen the possibility of personal injury. However, if normal safety precautions are overlooked or ignored, personal injury to the operator may result. Safety equipment such as guards, push sticks, hold-downs, feather boards, goggles, dust masks and hearing protection can

reduce your potential for injury. But even the best guard won't make up for poor judgment, carelessness or inattention. Always use common sense and exercise caution in the workshop. If a procedure feels dangerous, don't try it. Figure out an alternative procedure that feels safer. **REMEMBER:** Your personal safety is your responsibility.

⚠ WARNING! This machine was designed for certain applications only. We strongly recommend that this machine not be modified and/or used for any application other than that for which it was designed. If you have any questions relative to a particular application, do not use the machine until you have first contacted the manufacturer to determine if it can or should be performed on the product.

If you have any questions relative to its application do not use the product until you have contacted the manufacturer and we have advised you.

General Safety Rules

⚠ WARNING! Failure to follow these rules may result in serious personal injury.

For your own safety, read and understand the instruction manual before operating the unit. Learn the unit's application and limitations as well as the specific hazards peculiar to it.

1. Be sure that a shop foreman is present, and wear your green card while working in the shop.
2. Approach your work with a safe attitude! Focus. Concentrate on what you're doing, and don't get distracted. Distraction causes injury.
 - Be strong. No, this does not mean muscle strength. It means the strength to do it right, even when you are under time pressure. Follow the safety procedures.
 - Don't rush. Take the time to do things correctly and using the right guard or personal protective equipment (PPE). Is saving a few minutes worth a lifelong injury?
 - Work responsibly. If you care about yourself and your family, follow the safety procedures.
 - Don't gamble. A one-in-a-thousand risk is not worth the possible cost. Do not play the odds. Follow the safety procedures.
3. Give the work your undivided attention.
4. Wear safety glasses with side shields when the shop is in operation, wherever you are working, not just when you are using a machine yourself. Glasses should be ANSI Z87.1 rated.
5. Protect your hearing. Hearing protection is required in the CNC Shop area. However, it is a good idea to use hearing protection anytime when working in the shop. Consider using other personal protective equipment (PPE), such as a

mask or respirator when working in dusty conditions.

6. Do not wear anything that might be caught by a machine. This includes rings, wristwatches, other jewelry, loose-fitting clothing, long sleeves, and gloves. Tie back long hair.
7. Do not wear open-toed shoes, sandals, or flip-flops when working in the shop.
8. Ask for help. Unless you are sure that you know what you are doing and can handle it yourself, ask the foreman or another member for help.
9. Stand comfortably. Maintain a balanced stance at all times so that you do not fall or lean against the machine you are operating.
10. Maintain a 2-foot perimeter. Make sure you keep people, obstructions, and any debris that might impair traction at least 2 feet away from the machine you are using.
11. Use the dust collector. If the machine you are using has a dust collector, make sure it is on and the blast gate for the machine is open before starting.
12. Observe the 3-inch rule. Always keep your hands and fingers 3 inches away from the blade of a power saw, the bit of a drill press, the abrasive medium of a sander and any other moving parts of a woodworking machine.
13. Stay behind the blade. Never place your hands or fingers directly in line with any blade where you could cut them if you slipped.
14. If it's broken, don't use it. Replace all broken parts.
15. Tidy up after you set up. Clear the work area of any wrenches, chuck keys or other adjustment tools before turning on a machine.
16. Avoid surprises. Inspect your stock carefully for knots, twists, nails, staples, other foreign material, etc.
17. Wait until it starts. Do not start a machine with the blade, bit, or abrasive medium in contact with your workpiece. Wait until the machine is running at normal operating speed.
18. Don't force it. If you need to use excessive force with any woodworking machine, something is wrong. Stop and consult the shop foreman.
19. Wait until it stops. Never clear small pieces while the blade, bit, or abrasive medium is moving. And don't leave a machine work area until the machine is off and has come to a complete stop.
20. Unplug it. Always disconnect the power before changing a blade or performing any other maintenance operation.
21. Use the correct guard. Before using any power tool, be sure all guards are in place and working properly.
22. Clean up. When you are through with any machine or hand tool, clean the work area with brush, broom and dustpan or vacuum, and put away

whatever you took out. (Yes, this is a safety issue as well as a courtesy.)

Air Cleaner Safety Rules

⚠ DANGER! Do not use this unit to dissipate fumes or smoke. Explosions or fire can result. This dust collector is intended for use where only dry airborne dust is present. Its use should be limited to non-explosive, non-metallic atmospheres.

⚠ WARNING! Failure to follow these rules may result in serious personal injury.

⚠ WARNING! Do not use this unit to filter metal dust. Combining wood and metal dust can create an explosion or fire hazard.

⚠ WARNING! This unit is intended to filter non explosive atmospheres only.

1. Do not operate this unit until it is completely assembled and installed according to the instructions. A unit incorrectly assembled can cause injury.
2. Obtain advice from your supervisor, instructor, or another qualified person if you are not thoroughly familiar with the operation of this unit. Knowledge is safety.
3. Follow all wiring codes and recommended electrical connections to prevent electrical shock or electrocution.
4. Do not pull this unit by the power cord. Do not allow the power cord to come in contact with sharp instruments or edges, hot surfaces, or oil or grease. Do not place any weight on top of the power cord. A damaged power cord can cause electrical shock or electrocution.
5. Support this unit or securely clamp it to the work surface when it is used in a portable application to eliminate potential injury and/or damage from falling.
6. Ensure that the intake and exhaust areas are clear prior to starting the unit. Clogged intakes or exhausts can cause an explosion and/or fire.
7. Keep arms, hands, and fingers away from the fan. Avoid all exposure to rotating parts to prevent injury.
8. Do not operate this unit without the dust filters in place and properly secured. Sawdust and other debris can provide the potential for fire and/or explosion and can also cause inhalation problems.
9. Maintain the unit in top condition. Clogged filters can increase the potential for fire or explosion. Follow all instructions for changing and cleaning filters.
10. Store this unit in a location that eliminates the potential for damage to the power cord. A damaged power cord can cause shock or

electrocution. Safely store power cord on the unit to eliminate tripping hazards.

11. Turn the unit “off” and disconnect the unit from the power source before installing or removing accessories, before adjusting or changing set-ups, or when making repairs. An accidental start-up can cause serious injury.
12. Turn the unit “off”, disconnect the unit from the power source, and clean the table/work area before leaving the area.

Power Connections

A separate electrical circuit should be used for your machines. This circuit should not be less than #12 wire and should be protected with a 15 Amp time lag fuse. If an extension cord is used, use only 3-wire extension cords which have 3-prong grounding type plugs and matching receptacle which will accept the machine’s plug. Before connecting the machine to the power line, make sure the switch (s) is in the “OFF” position and be sure that the electric current is of the same characteristics as indicated on the machine. All line connections should make good contact. Running on low voltage will damage the machine.

⚠ DANGER! Do not expose the machine to rain or operate the machine in damp locations

Grounding Instructions

⚠ DANGER! This machine must be grounded while in use to protect the operator from electric shock.

1. All grounded, cord-connected machines: In the event of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This machine is equipped with an electric cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances.

Do not modify the plug provided - if it will not fit the outlet, have the proper outlet installed by a qualified electrician. Improper connection of the equipment-

grounding conductor can result in risk of electric shock. The conductor with insulation having an outer surface that is green with or without yellow stripes is the equipment-grounding conductor. If repair or replacement of the electric cord or plug is necessary, do not connect the equipment-grounding conductor to a live terminal. Check with a qualified electrician or service personnel if the grounding instructions are not completely understood, or if in doubt as to whether the machine is properly grounded.

Use only 3-wire extension cords that have 3-prong grounding type plugs and matching 3-conductor receptacles that accept the machine’s plug, as shown in Fig. A. Repair or replace damaged or worn cord immediately.

⚠ DANGER! In all cases, make certain that the receptacle in question is properly grounded. If you are not sure, have a qualified electrician check the receptacle.

Noise Emission

Given that there exists a relationship between noise level and exposure times, it is not precise enough to determine the need for supplementary precautions. The factors affecting the true level of exposure to operators are clearly the amount of time exposed, the characteristics of working environment other sources of dust and noise etc. For example, adjacent machines in other words the level of ambient noise. It is possible that exposure level limits will vary from country to country.

Prop 65

Drilling, sawing, sanding or machining wood products can expose you to wood dust, a substance known to the State of California to cause cancer. Avoid inhaling wood dust or use a dust mask or other safeguards for personal protection. For more information go to www.P65Warnings.ca.gov/wood.

Save these instructions.

Refer to them often and use them to instruct others

Specifications

Power Requirements.....	220V-240V/ 50Hz / 1Ph
Amperage	2.5Amps
Dimension	W24" x L28" x H12" (W610mm x L712mm x H305mm)
Machine Weight.....	56 lbs (25.4 kgs)
Shipping Weight	63 lbs (28.6 kgs)
Motor HP	0.2HP (150 Watt)
Air Flow	540, 730, 1200 CFM (15.3, 20.7, 34.0 CMM)
Noise	55.6, 56.1, 59.6 dB
Filter Cycle.....	20'x20'x8' room, 10, 14, 22 times/hour
Outer Filter	5 micron – 310x610x25mm
Inner Filter.....	1 micron washable electrostatic - 310x610x310mm
Filter Bag Material	Polyester
Timer Settings.....	1/2Hour, 2Hour, 4Hour
Control.....	On Board Panel & Remote Control

Set Up

3 Speed Ambient Air Cleaner with Electrostatic Filter is specifically designed to quietly circulate and filter non-metallic dust which is generated throughout the work area. The Air Cleaner is furnished with two filters: an outer filter which filters particles that are five microns and larger, and a secondary disposable filter that captures 91% of the dust particles that are one micron and larger (one micron = one millionth of a meter). Because breathing microscopic particles can be a potential health hazard, filtering microscopic dust particles offers a cleaner and safer environment. This Air Cleaner will filter the air in a room measuring 20' x 20' x 8' either 13, 16, or 18 times an hour, depending on the setting. If desired, multiple units can be used to filter larger areas. An occasional cleaning and/or replacement of filters is the only required maintenance.



Styrofoam blocks have been packed inside the unit for protection. Remove these blocks prior to use.

To Remove:

1. Disconnect unit from power source.
2. Remove outer filter by lifting on the bottom and pulling out.
3. Remove inner filter by lifting on the bottom and pulling out.
4. Remove Styrofoam blocks and replace filters.

Contents



- Air Filtration Unit
- (4) Rubber Feet
- (4) Ceiling Mount O-Screws
- (4) Ceiling Mount nuts
- (2) Batteries for Remote Remote

Unpacking

⚠ WARNING! Do not lift the air cleaner by the power cord.

The Air Cleaner is shipped complete in one shipping container. Carefully unpack the Air Cleaner and all loose items from the shipping container.

Setup Options

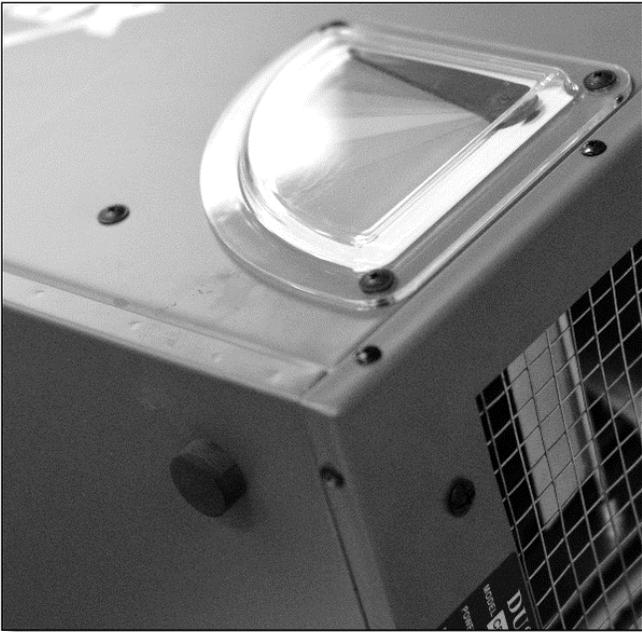
⚠ WARNING! For operator safety, clamp the unit to a work bench or position it securely on sawhorses.

IMPORTANT: When determining where to mount the air cleaner, always select a location where the air flow is unrestricted. Do not locate the unit in a corner or near any heating or cooling vents.

Using the air cleaner on a bench or floor surface

Locate (4) rubber feet supplied with the unit. Carefully place the Air Cleaner on a firm supporting surface with access to the bottom of the cabinet. Apply a self-adhesive rubber foot to the bottom at each corner of the air cleaner cabinet. The rubber feet will help eliminate vibration and will prevent the possibility of the air cleaner “walking” across the floor or work surface.

The air cleaner cabinet has convenient lifting handles located on either side. To avoid damage to the air filters, carry the air cleaner with the filters positioned away from your body.



Mounting air cleaner to the ceiling or overhead support

⚠ WARNING! This unit weighs approximately 60 pounds. When mounting overhead, be certain that the unit is securely fastened and supported.

⚠ WARNING! Never secure the air cleaner hardware to drywall, drop ceiling tile/frame, or other non-structural members.

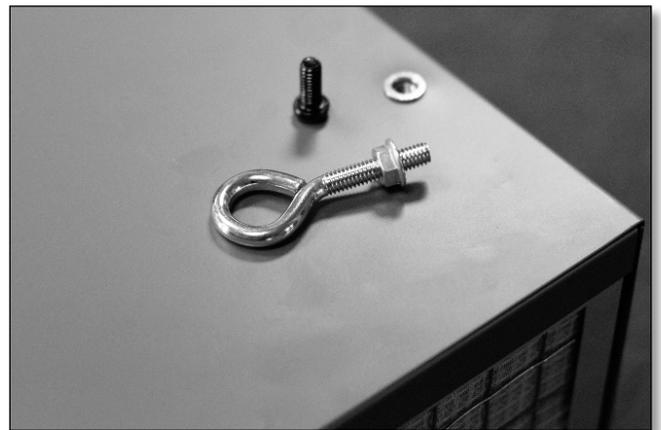
⚠ WARNING! Do not use rope, cable or power cord to suspend the unit from the ceiling. Use chain rated for a minimum of a 150 lb. working load.

1. Locate the four 1" eye bolts and the four 5/16" Flange nuts supplied with the unit.
2. Use a flat blade screwdriver (not supplied) to remove the four screws from the top of air cleaner.
3. Thread one flange nut on each bolt approximately 5/16".
4. Thread the eye-bolts into the four holes where the screws were removed in STEP 2.

TECH TIP Be certain that the flange nuts are tightened against the surface of the air cleaner.

TECH TIP When suspending the air cleaner from the ceiling or other overhead support, use steel s-hooks that are a minimum of 5/16".

TECH TIP Thread all lag hooks at least 1-1/2" into the supporting structural members.



Operation

The air cleaner may produce a slight odor for the first few hours of operation due to the protective coating which is applied to internal components. This odor will dissipate and should be disregarded.

The 3 Speed Ambient Air Cleaner with Electrostatic Filter can be used in application where non-metallic dust is a factor.

Onboard Control

⚠ WARNING! To reduce the risk of fire or electric shock, do not use this unit with any solid-state speed control device.



TIMER: Displays the current timing setting

SPEED: Displays the current speed setting

Manual – ON/OFF SPEED: Toggles between on, low speed, medium speed, high speed, off.

Manual – TIMER: Toggles between 1/2h, 1h, 2h, 4h, off.

Remote Control



Timer: Toggles between 1/2h, 1h, 2h, 4h, off.

Speed: Toggles between low speed, medium speed, high speed, off.

ON/OFF: Power

Maintenance

Changing and Cleaning Filters

When cleaned as directed, your electrostatic air filter will give you many years of trouble-free use. Failure to properly clean the filter may lessen filter effectiveness, and as with any air filter, it is possible for an excessive dirt buildup to cause air flow resistance enough to damage other ventilation components. Depending on your specific situation the filter should be cleaned every 4-6 weeks.

There is an “air flow” indicator located on the left side of the unit. To check the filters, turn the unit “ON”. If the indicator points to “green”, the filters are clean.



Cleaning Procedure

1. Turn the unit “OFF”.
2. Remove the outer first stage filter by lifting and pulling out on the bottom of the filter.

3. Rinse thoroughly to remove remaining dirt.
4. Drain excess water, let air dry, and reinstall.
5. Replace the filter, turn the unit “ON”, and check the air flow indicator again.
6. If the air flow indicator points to “green”, the inner filter is still useable. If the indicator points to “red”, remove the outer filter, then remove the inner filter by lifting and pulling out on the bottom of the filter. **DO NOT** try to clean the inner filter. It is disposable and must be replaced.
7. After replacing the inner filter, reinstall the outer filter.

NOTE: The 3 bag filter is very durable. The material is multiple layers synthetic microfiber. The synthetic microfiber builds up in non-woven layers to ensure multi-layers buildup and eliminate fiber shedding.

This bag filter is not washable. Clean it up by compressed air periodically or by vacuum light brush (recommended once per month).

Then you can repeat to use it till it is clogged up by the dusts and the air flow is reduced obviously. Replacement 3 bag filters (AFLUXIF) are available from your retailer or from LagunaTools directly.

Service

To order parts, call the store you purchased it from.

Parts List

P-6142422021	REMOTE CONTROL
P-603065326002	POWER CORD
P-6011110107001016120	MOTOR
P-2SF-C80-021	FAN/IMPELLER
P-2043154	PCB CONTROL BOARD
P-6020604102	5A RELAY
AFLUXIF	3 BAG FILTER
AFLUXOF	ELECTROSTATIC FILTER



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