

ELEVENT Fume Extractor

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Operations manual
Model: ELEVENT

IAP
AIR PRODUCTS

ELEVENT Fume Extractor

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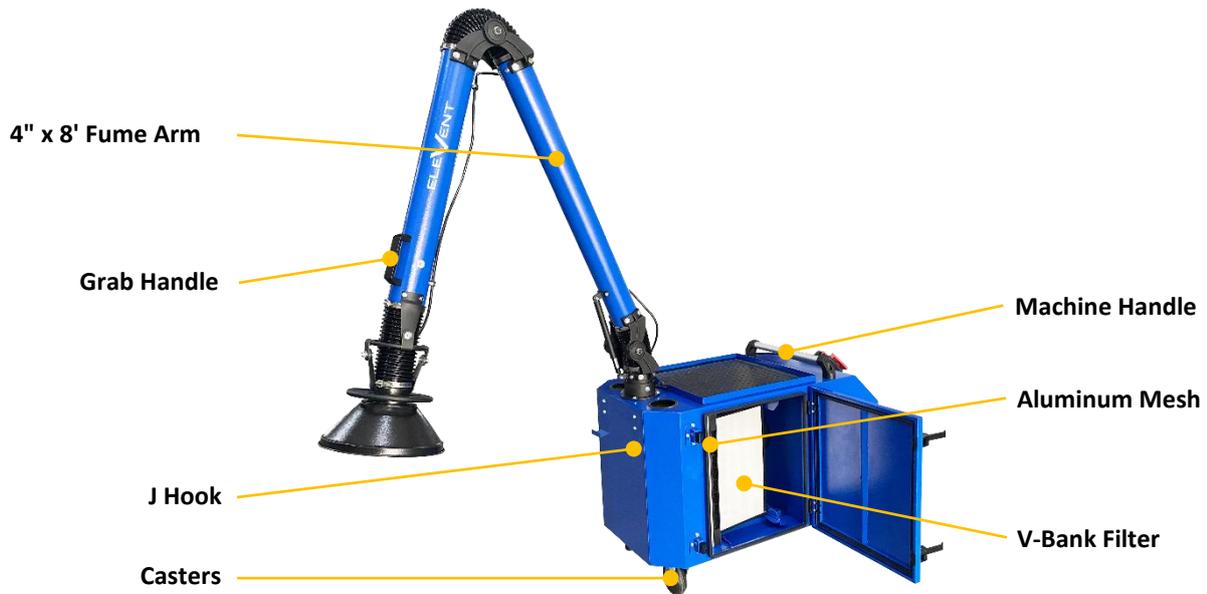
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Parts Description

Refer to the following figures and descriptions to better understand the instructions in this manual.



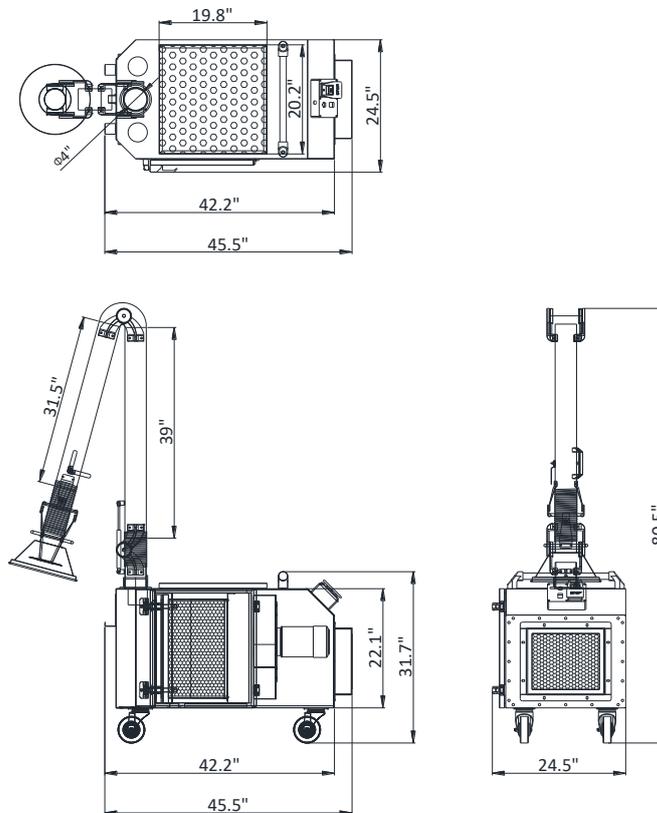
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Specifications

Nominal Airflow	400 cfm
Motor	1 HP
Power Supply	110V / 1ph
Machine Dimension	42.2" x 24.5" x 31.7"
Shipping Dimension	55" x 48" x 81"
N.W.	220lbs
G.W.	308lbs
1st Filtration	Aluminum Mesh
2nd Filtration	V-Bank Filter

Dimensions (in inches)



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Safety Instructions of ELEVENT Fume Extractor

▲ DANGER: Indicates a potentially hazardous situation which, if not avoided, could 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, will result in minor or moderate injury.

NOTE: Alerts the user to useful information about proper operation of the machine to avoid machine damage.

▲ WARNING: To reduce your risk of serious injury, read this Manual carefully before operating the product and preserve the Operation Manual properly.

- Keep children, the elderly, handicapped people, and others who are not familiar with this piece of equipment away from it during operation.
- Safely store all tools when not in use. Store tools in a dry safe place to inhibit rust. Always lock up tools and keep them out of reach of children and others.
- Always use common sense and exercise caution. Do not operate under the influence of drugs or alcohol, when tired, or when distracted.
- Do not wear loose fitting clothing or jewelry as they can be caught in moving machine parts. Use proper welding clothing and eye protection when using this product for welding fume extraction.
- Keep work area clean and organized. Cluttered areas can be unsafe and dangerous during operation.

- Ensure that the working environment is suitable for this machine. Do not use this product in areas that are wet, cluttered, or have poor lighting.

▲ WARNING: To reduce the risk of accidental injury, never leave machine running while unattended.

- Check for damaged parts before using machinery. Repair or replace any damaged parts before operation.
- Do not clean, repair, or replace any parts unless power to the machine is off.
- Replace the damaged parts by the instructions of the manual. If the said instructions are not specified in the manual, then contact your dealer.
- If the machine breaks down, contact your dealer immediately. Do not attempt to repair to avoid damaging the machine.
- All wires used by the product shall be safely located to prevent personal contact with the wires.

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- Do not drag the electrical wires with force and do not use the wires if frayed or current leakage occurs to avoid harming the operator.

NOTE: The original manufacturer's parts and accessories shall be used to avoid injuries from occurring. If any problem happens, contact your dealer immediately.

- Keep machine away from oil, chemicals or flammables, as sparks may ignite these materials and cause explosion.
- This product is suitable for collecting smoke and welding oil gas. Do not use it in collecting iron chips and dust at the same time to avoid producing sparks.
- When the fan blades are operated at high-speed, do not reach hand near these blades to prevent finger from breaking or clothes/necktie from getting caught.
- Do not put hand or foreign matter into the air inlet to avoid getting caught due to the high-speed rotation of fan blades.
- When not in use, all air inlets of ELEVENT Fume Extractor shall be covered.

Electrical Installation

- Check if the voltage, phase count and earth wire fit the machine.
- Inspect power and control cables periodically. Replace if damaged or bare wires are exposed.
- Be sure to follow local electrical codes and the electrical safety standards when connecting the machine.

⚠ CAUTION: For your safety, all electrical wire connections and installation shall be carried out by a professional technician.

- In the event of certain malfunctions or breakdowns, grounding provides a path of least resistance for electric current to reduce the risk of electric shock.
- Before connecting the electric cord, make sure the switch is in the "OFF" position.
- This machine is equipped with an electric cord having an equipment-grounding wire and a grounding plug. Connect grounding wire (yellow/green) to the earth wire power jack. If repair or replacement of the electric cord or plug is necessary, do not connect the equipment-grounding conductor to a live terminal.

⚠ WARNING: If machine is not properly grounded and connected to power supply, can result in risk of electric shock.

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Filter



Aluminum Mesh

1. Efficiency: Capturing welding sparks and steel chips
2. Specification: 20" x 20" x 1"
3. Quantity: 1 pc

V-Bank Filter

1. Efficiency: 95%
2. MERV Rating: MERV 15
3. Specification: 19.3" x 19.3" x 12"
4. Quantity: 1 pc

HEPA Filter (Optional)

1. Efficiency: 99.97% at 0.3 micron
2. MERV Rating: MERV 16
3. Specification: 14" x 12" x 3"
4. Quantity: 1 pcs

Assembly

⚠WARNING: Read and understand all of the precautions stated in the Manual, and for your safety, do not connect the ELEVENT Fume Extractor before the assembly is finished.

The machine must be fully assembled before it can be operated.

Before beginning the assembly process, check if the machine and components are consistent with those indicated in the Parts List.

If any doubt arises or when the components are incomplete, please contact your dealer.

NOTE: For correct assembly, refer to the Illustrations and Parts List on pages 7-9 and 12-13

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Aluminum Mesh and V-Bank Filter



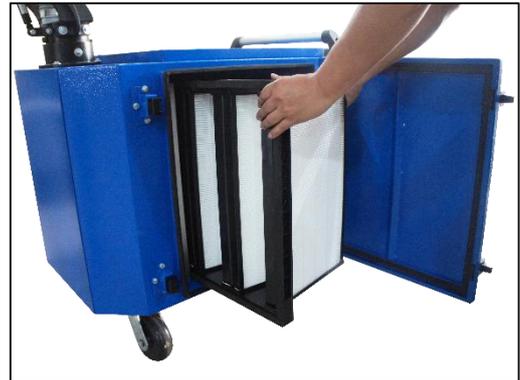
1. Open the front Door



3. Adjust the filter plates to remove the V-bank filter and aluminum mesh.



2. Loosen the upper and lower 4 wing nuts.



4. Pull the V-bank filter out.



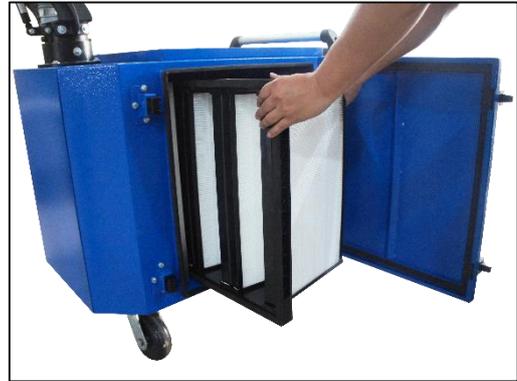
5. Pull the aluminum mesh out.

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6. Clean or replace the filters as needed.



9. Install the V-bank filter into the machine housing.



7. Clean the inside of the machine housing.



10. Adjust the filter plates to secure the V-bank filter and aluminum mesh with 4 wing nuts.



8. Install the aluminum mesh into the machine housing.



11. Inspect the door seal, and replace if damaged.

12. Close and latch the door.

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HEPA Filter (Optional)



1. Loosen and retain the 8 knob screws on the HEPA filter frame.
2. Remove the filter frame and HEPA filter from the machine.



3. Install the new HEPA filter to the frame.



4. Install the filter assembly to the machine with 8 knob screws.

Maintenance



Aluminum Mesh

-The aluminum mesh is washable and reusable.

-It will need to be replaced when worn, damaged, or when it becomes so clogged that washing is no longer effective.

V-Bank Filter

-It is not recommended to wash the V-bank filter.

-If the gasket on the V-bank filter is damaged, replace the V-bank filter.

-If the aluminum mesh has already been cleaned but airflow has not improved, replace the V-bank filter.

HEPA Filter (Optional)

-It is not recommended to wash the HEPA filter.

-If airflow remains weak after cleaning aluminum mesh and V-bank filter, it will be necessary to replace the HEPA filter.

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Operation

The ELEVENT Fume Extractor is designed for the filtration of smoke generated during ordinary welding process work.

When installed and operated correctly, can effectively collect and screen the smoke resulting from the welding work in maintaining the air quality of the working environment.

⚠ WARNING: Before operation be sure to read this entire manual carefully, make sure all Warning/Danger sections are understood and proper safety equipment is utilized.

-Check if relevant safety protection measures have been taken according to the Manual.

-Connect power to system after complete assembly of ELEVENT Fume Extractor has been performed.

-Please refer to embedded directional arrow, confirm the motor is turning in the direction as labeled on the machine.

-Disconnect power when machine is not in use.

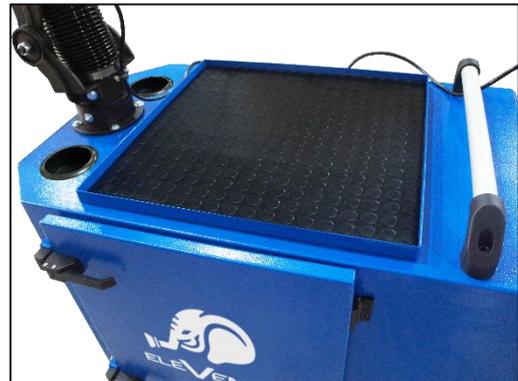
Magnetic Switch



- Green Button: to start and run the fume extractor.

- Red Button: to stop the fume extractor.

Tool Tray



-Use the tool tray to hold tools or spare parts for easy access during operation.

Cup Holder and J Hook



-The cup holder is designed to securely hold your beverage container during machine operation.

-Use the J hook to hang tools, cables, or small accessories for quick access and organization.

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Damper: Operate the damper to adjust the air flow.



-Adjust the damper clockwise to increase air flow.



-Adjust the damper counterclockwise to decrease air flow.

Joint: Adjust the length of the fume arm depending on demand.



-Adjust fume arm to capture the closest fume dust spot.

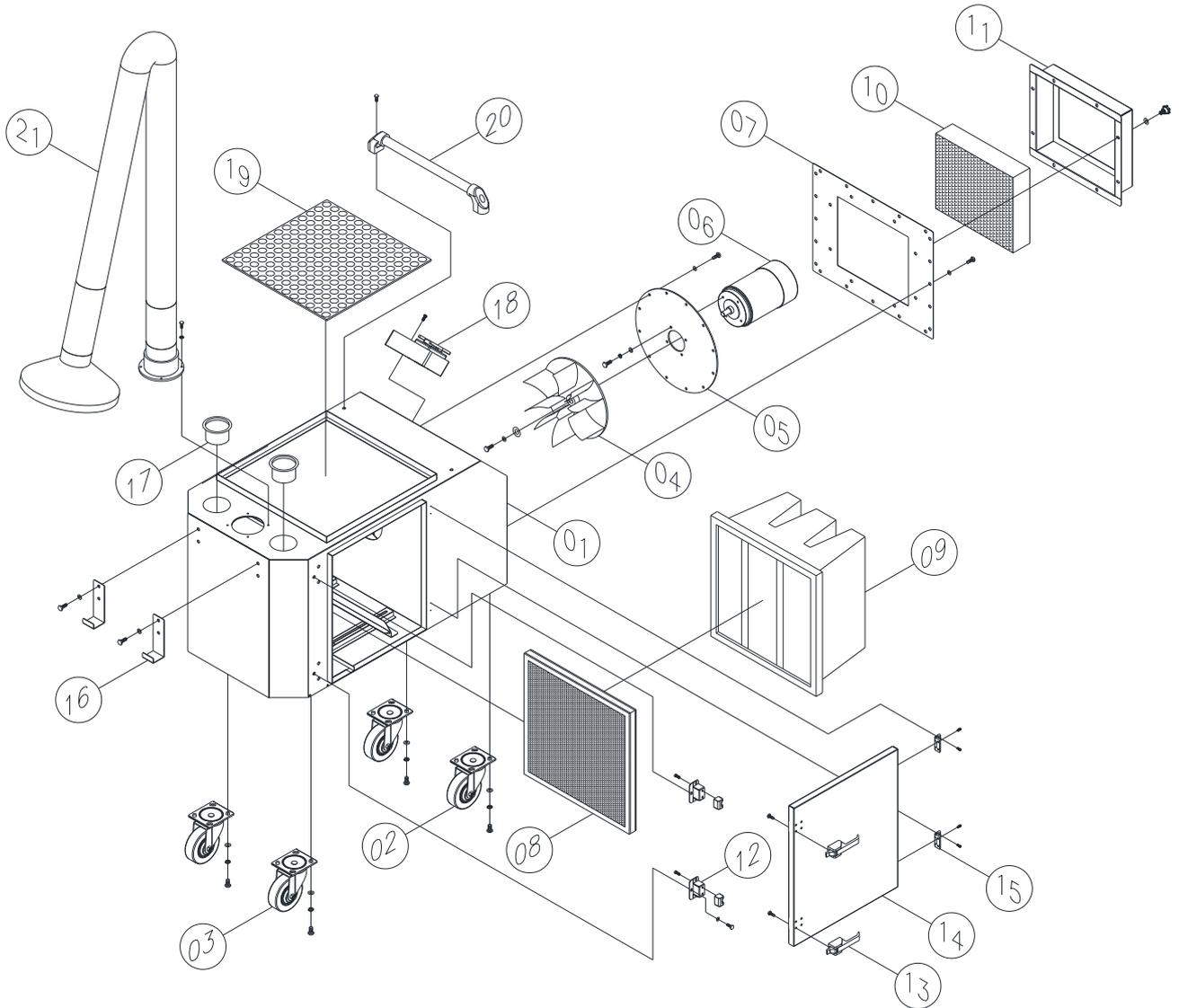


-Adjust fume arm to capture the far fume dust spot.

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Parts Diagram



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Parts List

Item	Description	Qty.
1	Main Body	1
2	Casters with lock	2
3	Casters	2
4	Impeller	1
5	Motor Base	1
6	Motor	1
7	Motor Access Cover	1
8	Aluminum Mesh	1
9	V-Bank Filter	1
10	HEPA Filter	1
11	HEPA Filter Frame	1
12	Handle Bracket	2
13	Door's Handle	2
14	Maintenance Door	1
15	Hinge	2
16	J Hook	2
17	Cup Holder	2
18	Switch	1
19	Tool Tray	1
20	Machine Handle	1
21	4" x 8' Fume Arm with Oversized Hood	1

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Contact Information

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