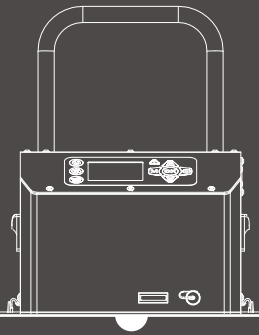
CleanZone

Aura

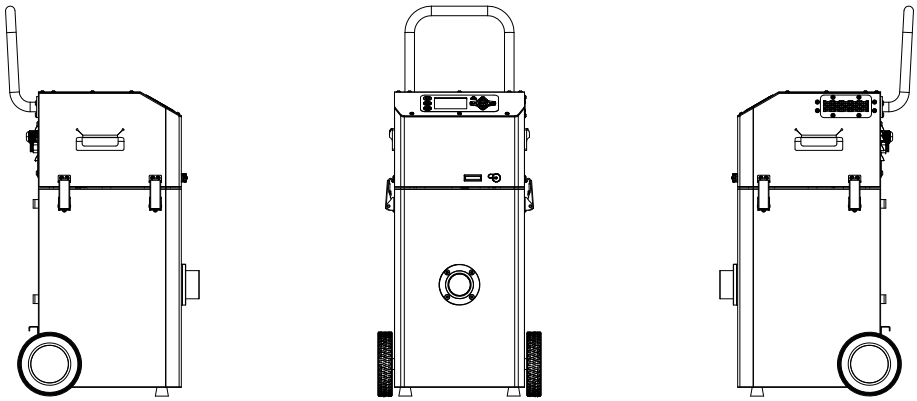
Field Trial Only

User Manual

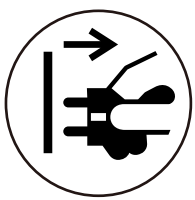


User Manual

CleanZone
Aura



Safety Signs and Symbols



Disconnect mains plug from electrical outlet

Wear a face mask

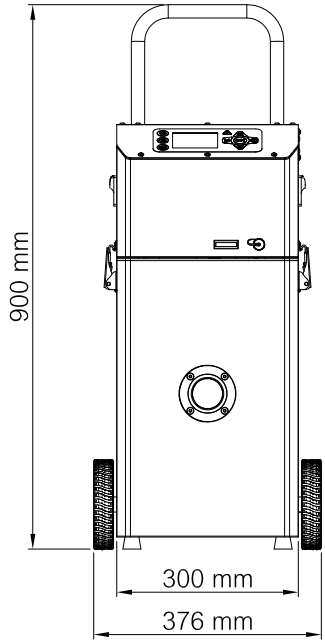
Wear eye protection

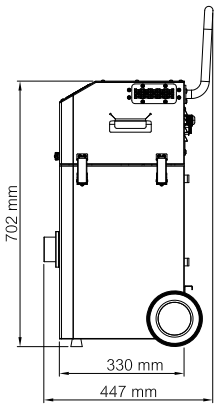
Wear protective gloves

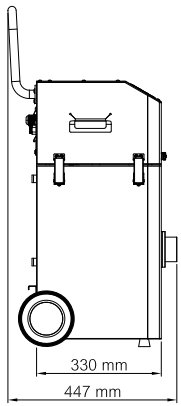
Do not reuse

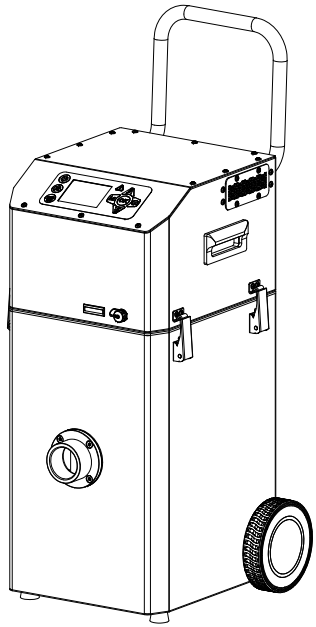
Compressed Air Required 6-8 bar

This manual is for field test units only and is subject to verification, adjustment, and change as testing and product development continue.









1

Technical Data

Voltage
230V or 240V
50Hz-60Hz

Maximum amperage
6 A

Power
1.2 kW

Capacity(airflow)
65 m^3/h @ 18 kPa
128 m^3/h @ 5 kPa

Noise level at 50%
65-70 dB(A) at 1 m

Maximum vacuum
18 kPa

Filter Area
Main 1.38 m^2

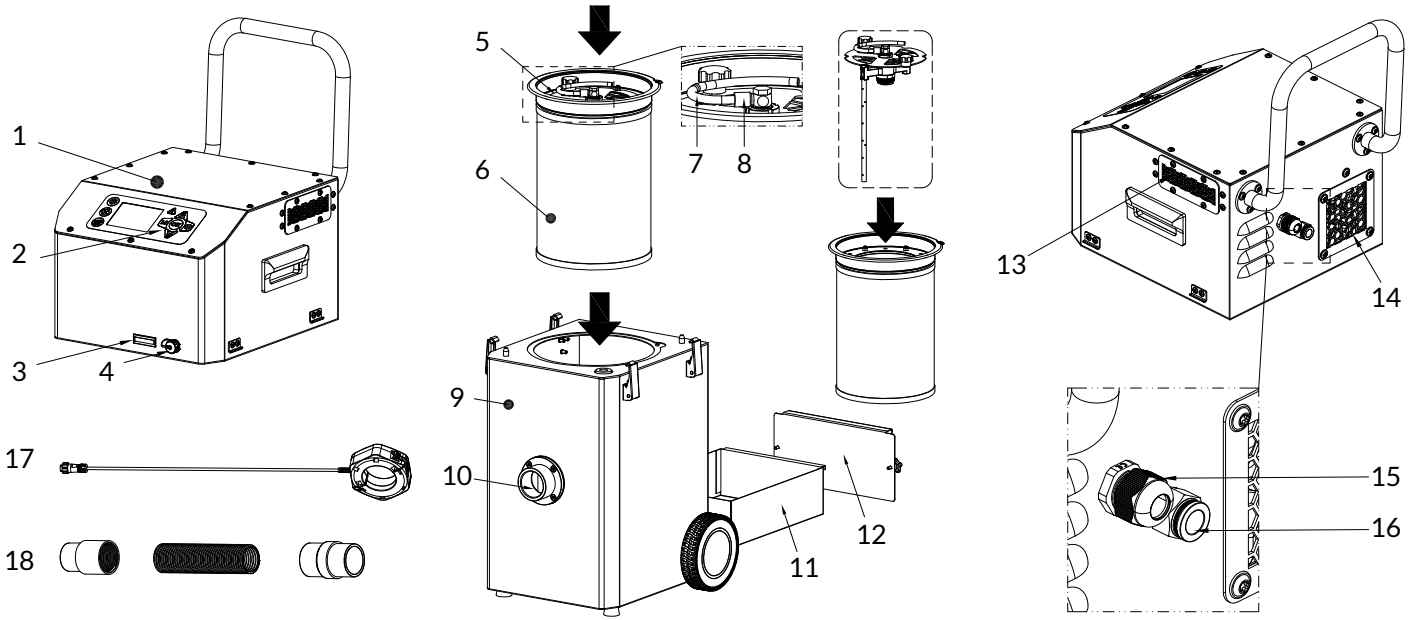
Filter cleaning
Automatic, with pressurized air ~6-8 Bar
Compressed air, incoming 6-8 Bar, maximum 8 Bar

Noise level at 100%
70-78 dB(A) at 1 m

Filtration efficiency
Compliant >99%

Motor type
Brushless

Parts Breakdown

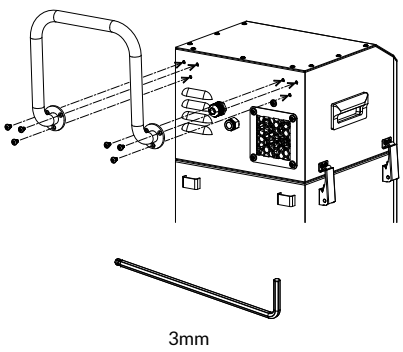


Main Parts

1. Motor top
2. Operator panel
3. SD card
4. Auto mode sensor socket
5. Filter cleaning system
6. Main filter
7. Compressed air hose
8. Compressed air connection
9. Cabinet
10. Suction hose connection
11. Dust tray
12. Dust tray cover
13. Air intake filters
14. Exhaust air outlet
15. Mains power cable
16. Compresssed air connection
17. Auto mode sensor
18. Suction hose with end connections

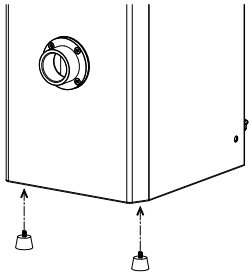
Assembly

1



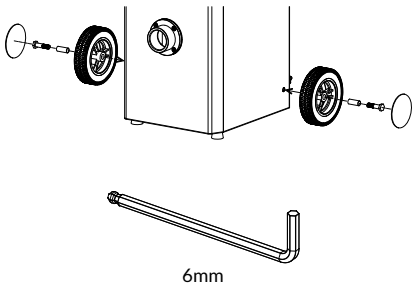
Assemble Handle

2



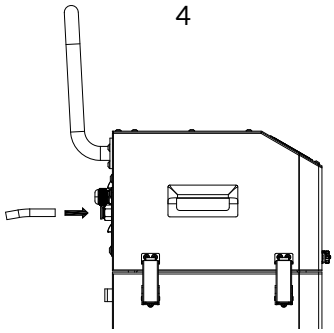
Fit Feet

3



Assemble Wheels

4



Connect Compressed Air

5

Follow the Steps

1.Assemble Handle
Start with the assembly of the handle. Use the mounting kit provided.

*Use a 3mm Allen Key

2.Fit Feet
Tilt the unit backwards and assemble the feet.

3.Assemble Wheels
Tilt the unit forward, leaning against the rubber feet. Assemble the wheels. Use the mounting kit provided.

*Use a 6mm Allen Key

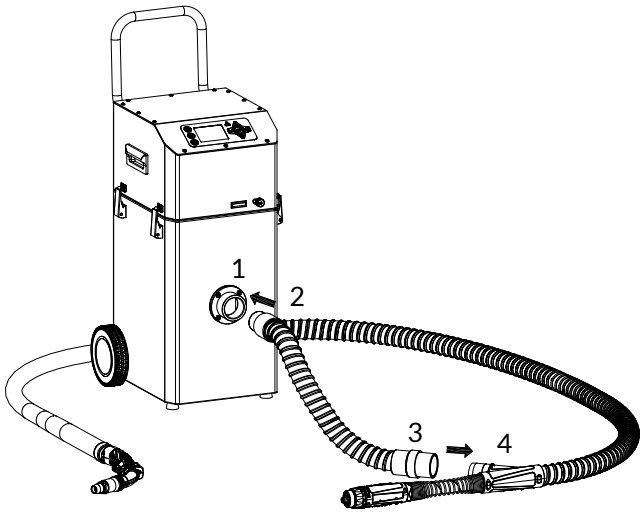
4.Connect Compressed Air
Attach the compressed air hose to the compressed air connection.
Connect the hose to the compressed air supply.

*Bandwidth - **supply line for dry and clean compressed air at 6-8 bar**

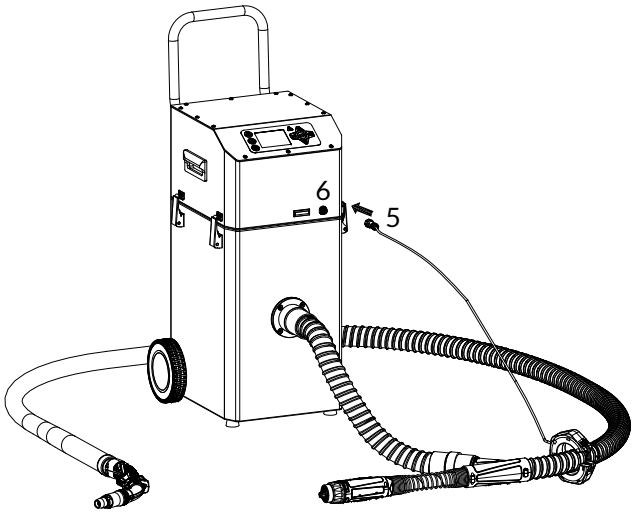
WARNING

- To minimize manual handling, the task should be performed by two personnel or with the use of suitable lifting equipment.

Assembly



Manual Mode Set Up



Auto Mode Set Up

Follow the Steps

Manual Mode Set Up
Connect the fume unit and the hard interface suction hose.

Connect the welding torch and the soft interface suction hose.

*Connect 1 and 2

Connect 3 and 4

Auto Mode Set Up
Connect the fume unit and the hard interface suction hose.

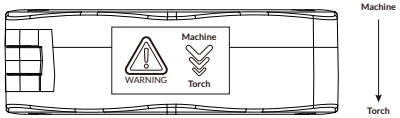
Connect the welding torch and the soft interface suction hose.

Connect the auto mode sensor to the auto mode sensor socket.

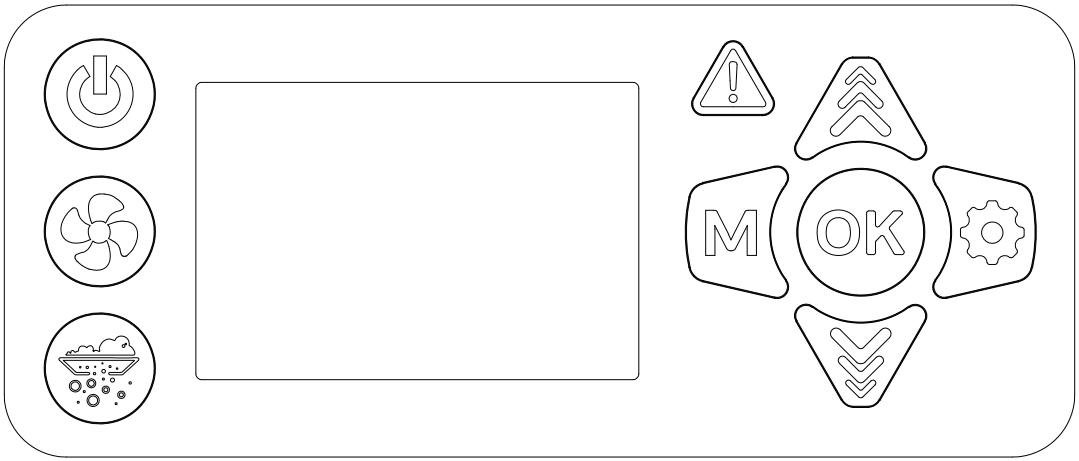
*Connect 5 and 6

WARNING

- It is important to ensure that the arrows point in the correct direction.



Operator Panel



Push Buttons

Power Button
Switches between ON (idle) and OFF.

Blower Button
Starts the blower. Works in manual mode only.

Cleaning
- Main filter cleaning.
- Forces start of the main filter cleaning cycle manually.

Increase

Decrease

OK
Confirm changes.

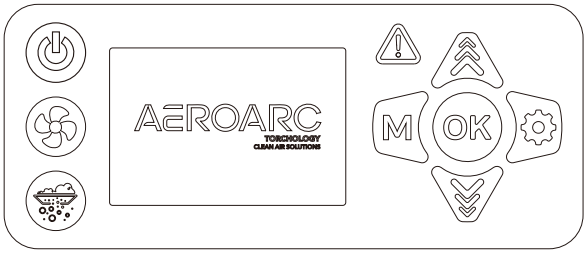
Mode
Select work mode.

Setting
- Click once - Open Settings Menu
- Click twice - Open Set Up Menu
- Click once to return to previous menu

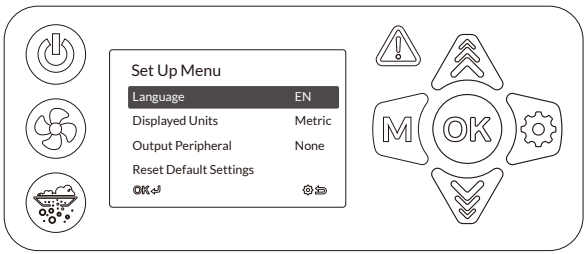
General Warning Sign

Operation

First Time Set Up

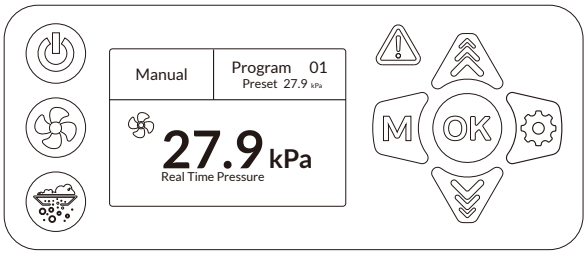


Press the **Power Button**.

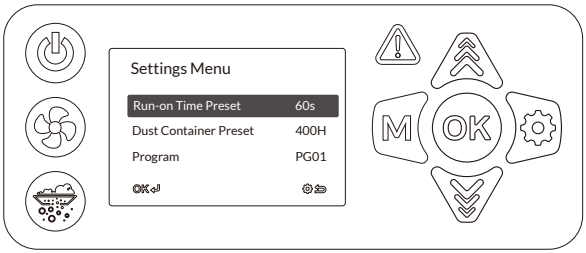


Factory preset - no changes can be made to field test models.
Press **Setting** button to confirm and return to main menu.

Settings Menu



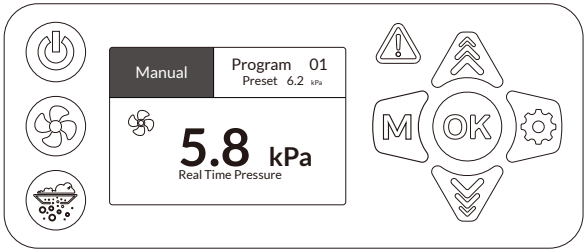
Press the **Setting Button**.



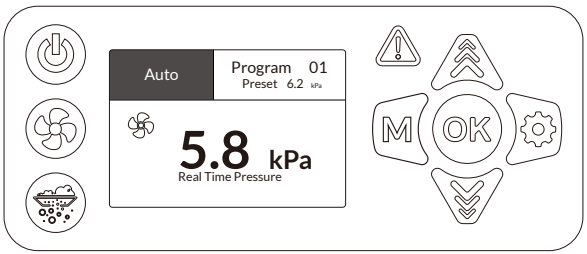
Click **OK** to enter menu, the **green** background is **flashing**.
Use **Increase** and **Decrease** buttons.
Press the **Setting** to **save** the current changes and **return**.
Repeat for each menu option.

Operation

To Start



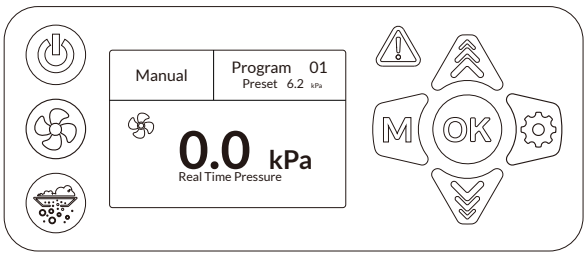
Press **M** to switch between **Manual** and **Auto** mode.



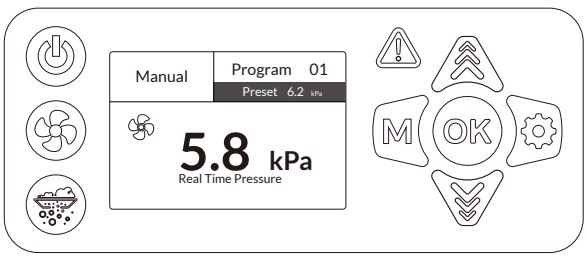
When switching, the **top left corner** is displayed in **green**.

*Wait for **3 seconds**, green **disappears**.

Manual Set-Up



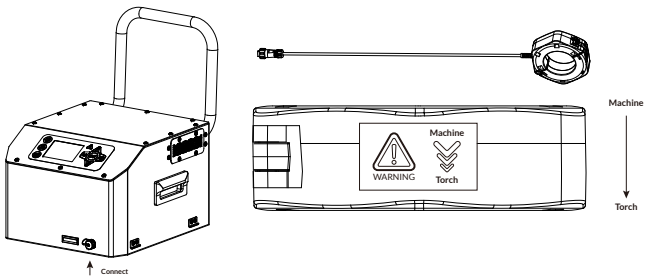
In manual mode.
Press the **Blower Button** to start.



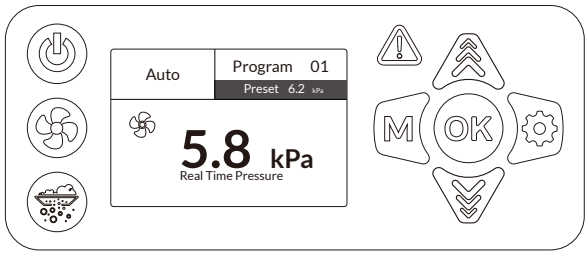
Adjust parameters using **Increase** and **Decrease** arrows.
Changes will show in green preset bar.
Press **OK** to confirm.

Operation

Auto Set-Up

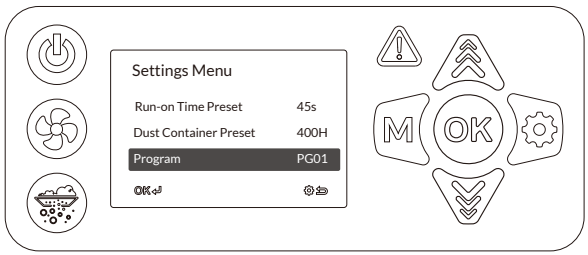


For **Auto Mode** attach the auto mode sensor to the torch.
Auto Mode will activate once the torch begins welding.

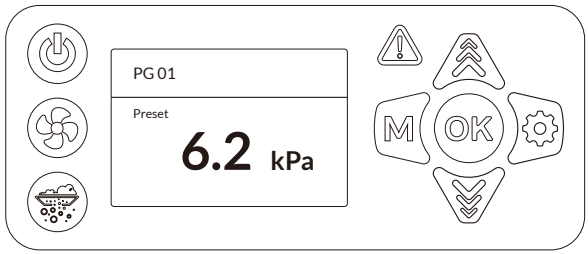


Adjust parameters using **Increase** and **Decrease** buttons.
Changes will show in green preset bar.
Press **OK** to confirm.

Saving a Program



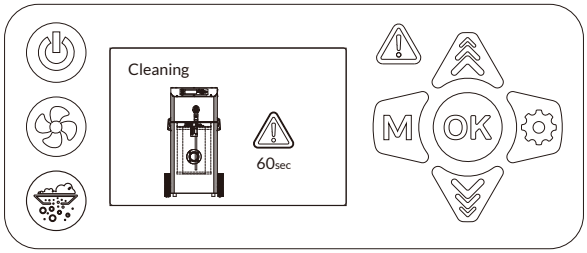
Click once to enter **Setting Menu**.
Use **Increase** and **Decrease** buttons to select the **Program**.
Click the **OK** to enter the **Program Menu**.



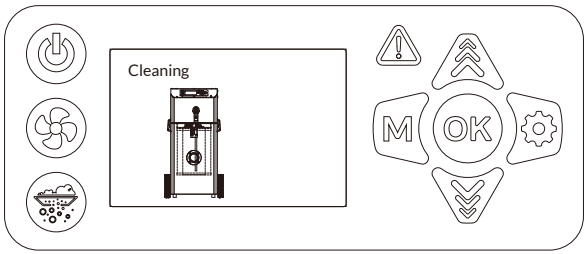
Use **Increase** and **Decrease** buttons to change kPa.
Press the **Setting** to **save** and **return** to the **Setting Menu.**

Operation

Cleaning

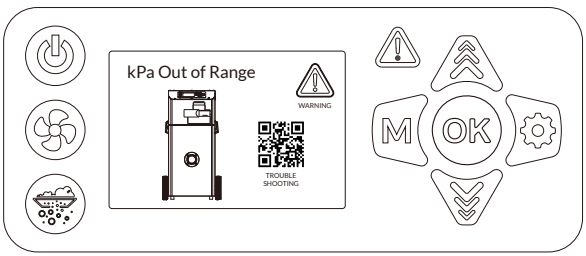


To start manual cleaning press the **Cleaning Button**.
The cleaning process lasts 90 seconds.



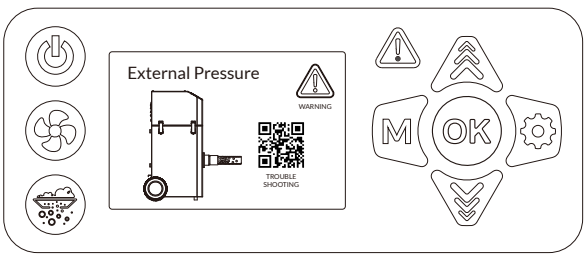
If the unit is idle for 2 minutes - it will start the cleaning cycle.

Warning Alerts



kPa Out of Range

Refer to
Troubleshooting Guide



External Pressure

Refer to
Troubleshooting Guide

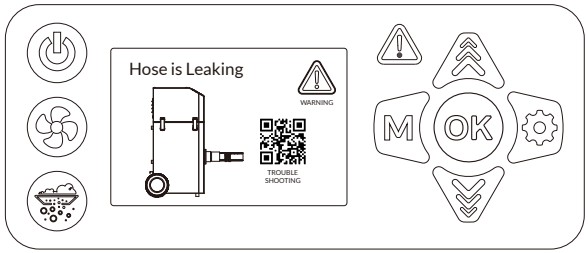
WARNING

*To clear the warning message press **OK**.

*Note: QR codes to not work on field test models

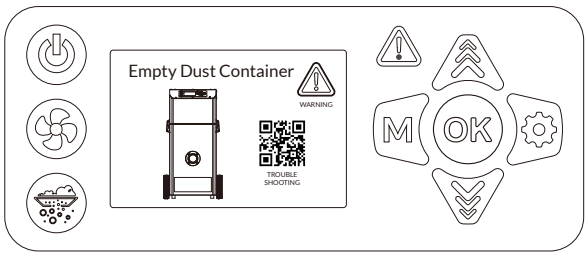
Operation

Warning Alerts



Hose is Leaking

Refer to
Troubleshooting Guide



Empty Dust Container

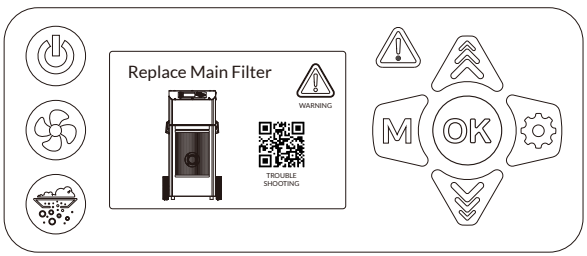
Refer to
Troubleshooting Guide

*To clear the warning message press **OK**.

*Note: QR codes to not work on field test models

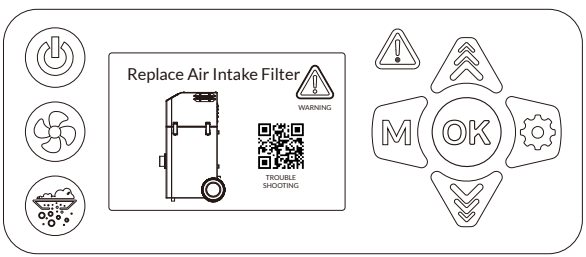
WARNING

Warning Alerts



Replace Main Filter

Refer to
Troubleshooting Guide



Replace Air Intake Filter

Refer to
Troubleshooting Guide

*To clear the warning message press **OK**.

*Note: QR codes to not work on field test models

WARNING

Troubleshooting Guide

Safety Information

- Switch off and isolate the unit before any inspection or maintenance.
- Disconnect electrical power, compressed air, and any connected equipment.
- Only qualified personnel should carry out internal repairs or servicing.

kPa Out of Range	External Pressure	Hose is Leaking
Possible causes	Possible causes	Possible causes
• Blocked filter • Value is set too high	• Blocked hose • Blocked air intake filter	• Faulty hose • Hose disconnected
Action	Action	Action
• Inspect and clean/replace filters and check for blockages • Reduce the set value	• Check hose • Check air intake filter	• Check hose / replace hose • Check air intake valve

Troubleshooting Guide

Empty Dust Container

Possible causes
• The dust tray setting is wrong • The dust tray is full

Action
• Check the dust tray and adjust the cycle time • Empty the dust tray *Refer to Page 35

Replace Main Filter

Possible causes
• Filter is full

Action
• Replace the main filter element *Refer to Page 29

Replace Air Intake Filter

Possible causes
• Air Intake FIiter is full

Action
• Replace the air intake filter *Refer to Page 27

Reduced Suction / Poor Fume Capture

Possible causes
• Clogged or saturated filter • Blocked hose • Air leaks in hoses, seals, or connections

Action
• Clean or replace filter elements • Check and clear hoses • Inspect seals and tighten connections

Unit Not Starting

Possible causes
• No power supply • Blown fuse or tripped breaker • Faulty switch or control circuit • Automatic start function not activated

Action
• Check mains supply and reconnect power • Replace fuse or reset breaker • Verify operating mode (manual/auto)

Dust or Particles Escaping Unit

Possible causes
• Damaged or incorrectly fitted filter • Full dust collection tray • Worn seals or gaskets • Filter not fitted seated correctly

Action
• Replace or correctly install filter • Empty dust tray • Replace seals if damaged

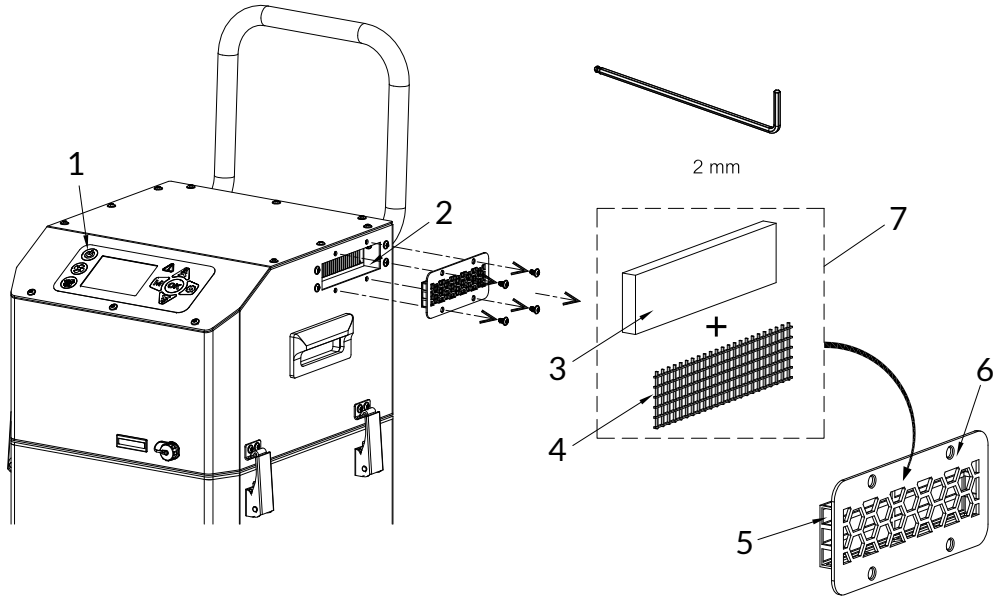
Troubleshooting Guide

Alarm or Indicator Warnings	Automatic Cleaning Cycle Not Working	Reduced Performance Over Time (Gradual Loss)
Possible causes	Possible causes	Possible causes
• Filter saturation • Reduced airflow • Maintenance overdue	• Low or faulty compressed air supply • Blocked torch nozzles • Control system error	• Filter slowly clogging • Dust build-up in ducting • Lack of scheduled maintenance
Action	Action	Action
• Replace filter • Check airflow path for blockages • Perform scheduled maintenance • Restart system after inspection	• Check compressed air pressure and supply • Clean or replace torch nozzles	• Replace filters at recommended intervals • Clean internal ducting • Follow maintenance schedule

Maintenance Schedule

Part	Intervals	Inspection / Maintenance
Main filter	Alarm Alert or unit does not reach performance	Cleaning Replace main filter
Dust container	Factory preset 400h As and When	Clean / Empty
Protective metal mesh filter	Alarm Alert	Visually inspect, replace if damaged or worn. Gently clean with a vacuum cleaner.
Air-Intake Filter	Alarm Alert	Replace air intake filter
Suction hose	Daily	Visually inspect, replace if damaged or worn.

Air Intake Filter Replacement



Replacing the Air Intake Filter

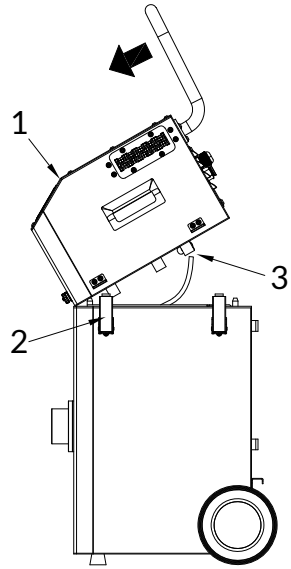
- Turn off the unit (1).
- Remove the air vent cover (6) and remove the 2 filters (7).
- Clean the cover and metal mesh filter with a vacuum cleaner.
- Replace the filters and dispose of the old filters correctly.
- Replace the clean metal mesh and new particle filter, making sure the metal mesh is closest to the cover (7).
- Replace the cover.

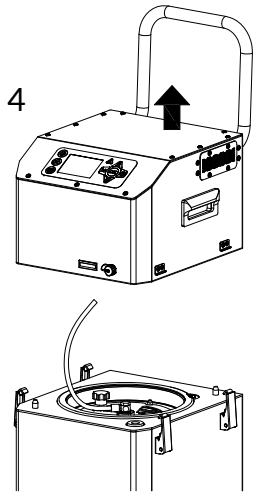
*Use 2mm Allen Key

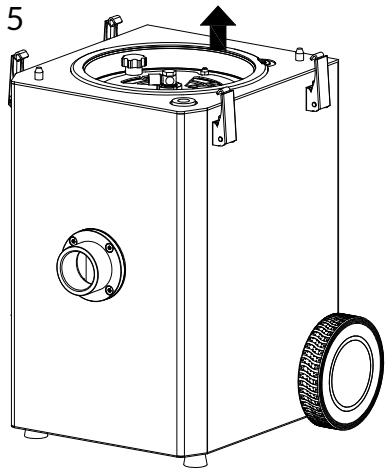
CAUTION

- Improperly fitted or blocked air intake filters may restrict airflow and cause damage.

Main Filter Replacement





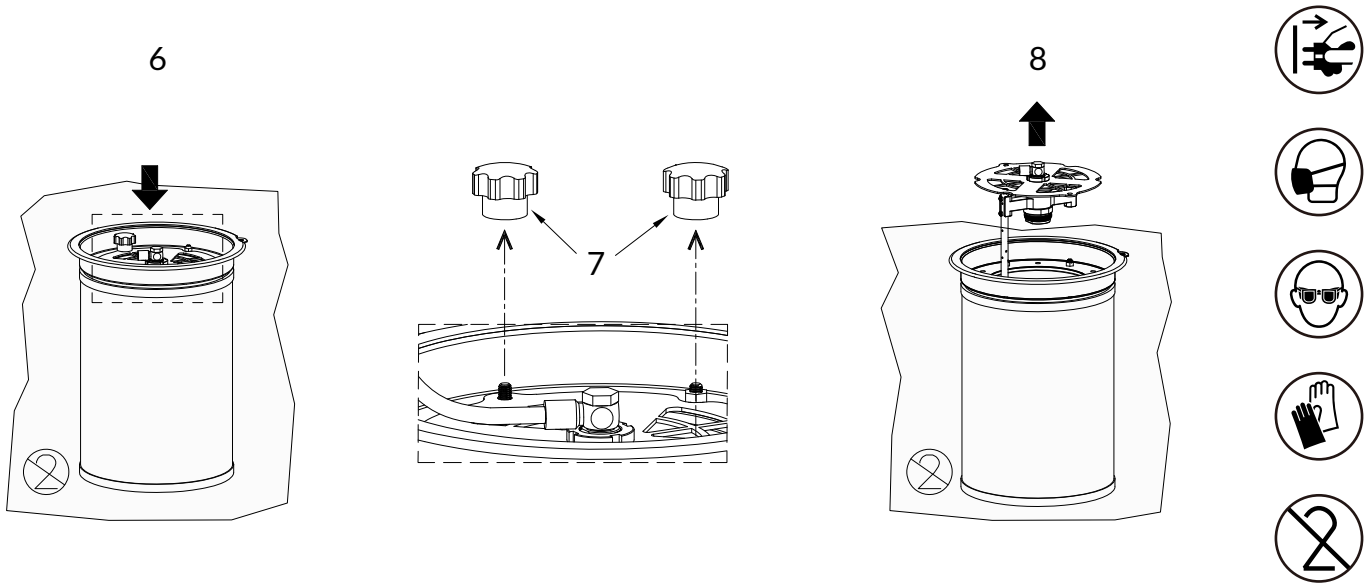


Replacing the Main Filter

Always run a cleaning cycle for the main filter before replacing it.

- Turn off the unit (1)
- Unplug the mains power cable. Disconnect the compressed air supply.
- Open the locks (2). Tilt the motor top forward and disconnect the compressed air hose from the coupling (3).
- Remove the motor top completely (4)
- Remove the main filter and cleaning unit (5) from the cabinet.

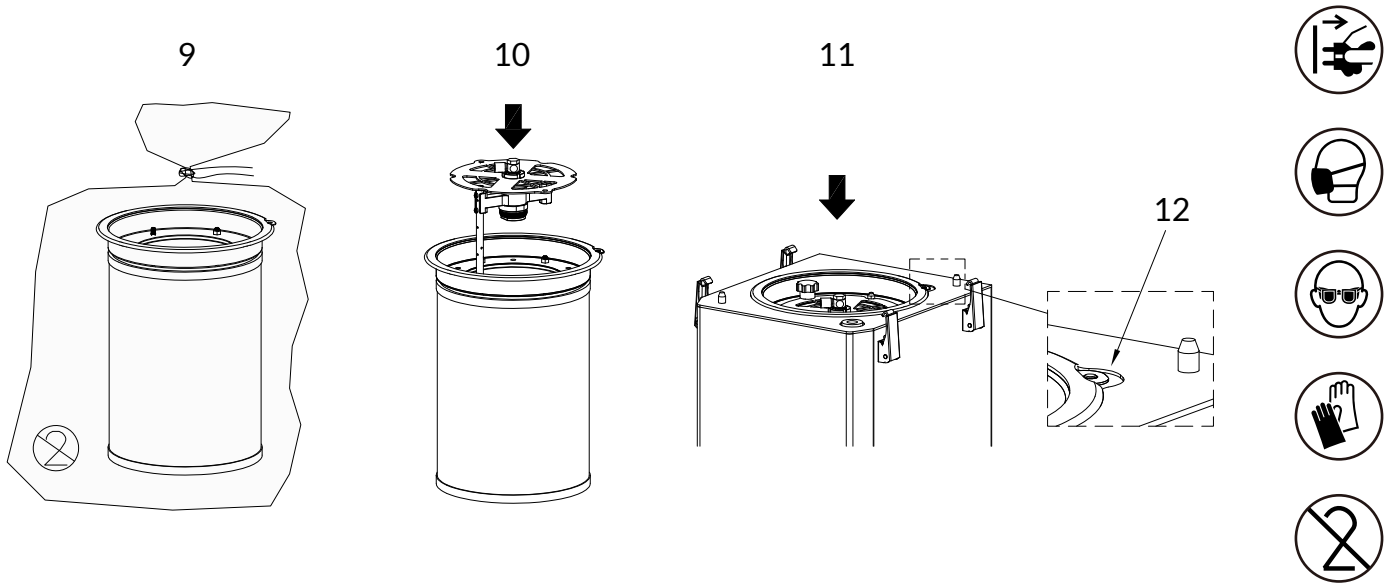
Main Filter Replacement



Replacing the Main Filter

- Place the used filter and the cleaning unit into a waste bag (6) intended for the purpose.
- Inside the waste bag, loosen and remove the nuts from the cleaning unit bracket (7).
- Lift the cleaning unit carefully up and out of the main filter and out of the waste bag (8).
- Replace the main filter in the cleaning unit.

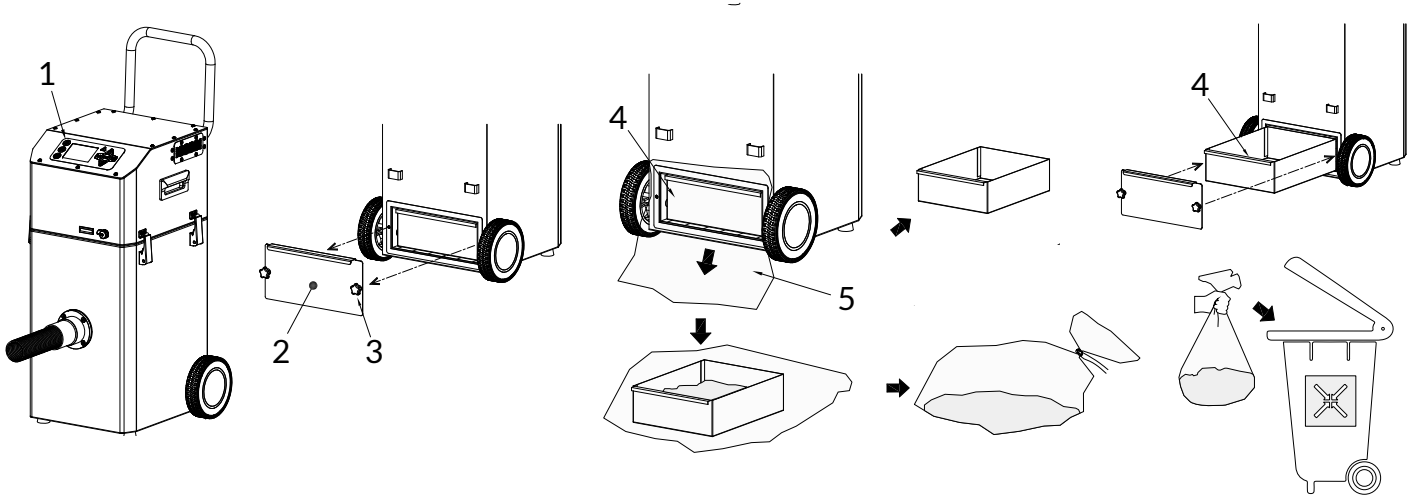
Main Filter Replacement



Replacing the Main Filter

- Tie the waste bag tightly and dispose of correctly (9).
- Reconnect the compressed air tube to its coupling. Reconnect the incoming compressed air and plug in the mains power cable.
- Refit the motor top and ensure the locks are closed.

Empty the Dust Tray



Replacing the Dust Tray





- Turn off the unit (1) and unplug the mains power cable.
- Loosen the screws (3) of the dust tray cover (2).
- Remove the dust tray (4) slowly out of the cabinet and at the same time put into a waste bag (5)
- Put the dust tray back into the cabinet.
- Refit dust tray cover and tighten screws.

WARNING

- Wear a face mask, eye protection and protective gloves when replacing the dust container.

CAUTION

- An improperly fitted or overfilled dust tray container can cause loss of suction power and risk of damage.