

AYO™ WX

AROUND-NECK PAPR QUICK GUIDE

System Overview

AYO™ WX MASK



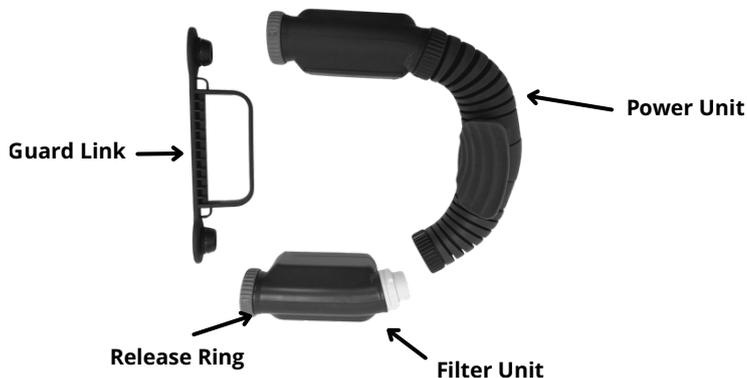
AYO™ WX MAIN UNIT



AYO™ WX SYSTEM



AYO™ WX MAIN UNIT



CONTROL UNIT USER INTERFACE



1. ON/OFF button
2. Battery Level Indicator LED(s)
3. Blocked Filter Indicator LED
4. Buzzer (inside housing)
5. MODE button
6. MODE LED

Operation Mode:

Sleep Mode

Standby Mode

Run Mode - (Eco, Boost)

1. **Sleep Mode:** The blower is stopped, and the system is placed into a low-power state to reduce battery consumption.
2. **Standby Mode:** The blower is stopped while the system monitors any user inputs or breathing.
3. **Run Mode:** The blower runs; Eco/Boost states are selectable.

Power Unit P-Boost

- **Eco state:** It is designed to maintain positive pressure in the mask with lower power consumption. Ideal for low to moderate intensity work or requiring long operation time.
- **Boost state:** ideal for high-exertion work with heavy breathing, where about twice as much air volume will be generated compared with the Eco state.

Power Unit Gas

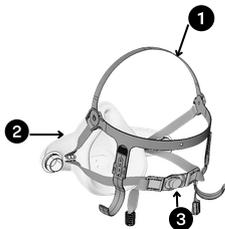
- Only runs in Eco state.

Eco/Boost Toggling (Particulate Main Unit Only)

AYO WX Main Unit - Particulate is in Eco state right after wake-up. When the blower is running, Eco or Boost can be toggled at any time by holding the MODE button until a beep is heard.

Typical Breath-Responsive Operation

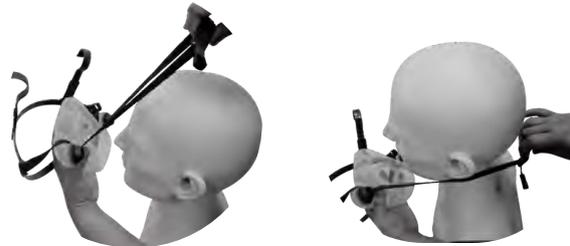
- Press ON/OFF button to wake up the system from Sleep Mode to Standby Mode.
- Put on the system around the neck and breathe to trigger the system to Run Mode.
- The system will control the blower responsively for each breath to maintain a positive pressure in the mask.
- When finished using the respirator, simply separate Main Unit and take mask off; the system will stop by itself in a few seconds and enter Standby Mode.
- The system will turn into Sleep Mode if staying in Standby Mode for 10 minutes.

Donning (Half-Face Mask PAPR System)


Step 1: Ensure harness (1) is fitted correctly to mask (2) without twisted straps, and the buckles (3) are connected.



Step 3: Position mask on face and place harness atop head, then tighten strap by pulling on strap ends.



Step 2: Pull strap over head and place on back of neck.

Release Ring

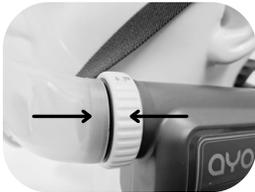

Step 4: Twist Release Ring to remove Guard Link from Main Unit.



Step 5: Press ON/OFF button to wake Main Unit. Make sure at least 2 LEDs are lit, otherwise charge the battery.



Step 6: Hold Main Unit on both sides and slide Main Unit down along the back of head until it sits on support hooks.



Step 7: Push-fit each end of Main Unit to corresponding end of mask until audible click is heard.



Step 8: Adjust support hook settings if necessary to ensure Main Unit is off and parallel with the shoulder.

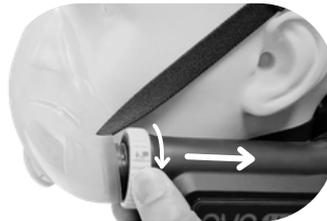


Step 9: Place strap buckles over Neck Pad to further secure Main Unit.

Doffing (Half-Face Mask PAPR System)



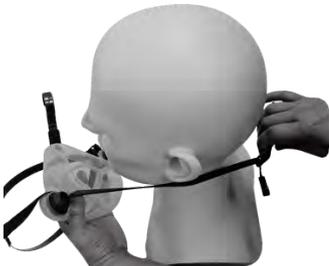
Step 1: Pull strap buckles off Neck Pad.



Step 2: Hold Main Unit at one side while twisting Release Ring to disconnect mask plug. Repeat the other side.



Step 3: Along back of head lift Main Unit off support hooks and remove.



Step 4: Take off mask.



Step 5: Push-fit Guard Link back onto Main Unit.

Donning (Full-Face Mask P APR System)



Step 1: Loosen buckles to extend straps and pull harness over head.



FFM-DS

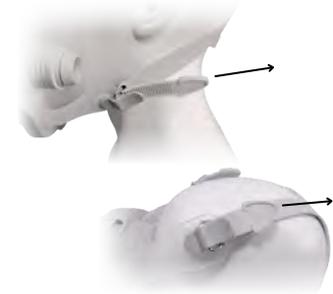


FFM-LF

Step 2: Position mask correctly.

- **For FFM-DS**, seat the inner mask snugly around chin and nose bridge.
- **For FFM-LF**, rest chin on top of chin cushion.

Tip: Avoid hair under face cushion to reduce leaks.



Step 3: Hold mask with one hand, pull on the four strap ends evenly to secure mask in position.

Tip: Bend down to check if there are any loose points and tighten the strap near the loose points if present.

Release Ring



Step 4: Twist Release Ring to remove Guard Link from Main Unit.



Step 5: Press ON/OFF button to wake Main Unit, make sure at least 2 LEDs are lit, otherwise charge the battery.

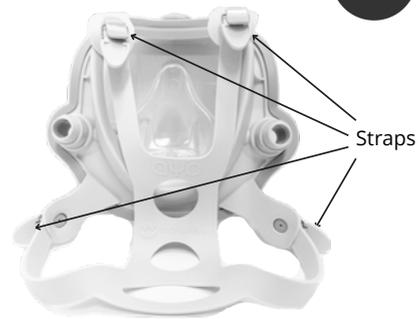


Step 6: Place Main Unit on back of neck, wedge mask plug slightly outward with a thumb, and push-fit Main Unit socket onto the plug until audible click. Ensure connection is secure and cannot be pulled apart. Repeat connection on other side.

Tip: Align the end of Main Unit with the mask plug axially to ensure a smooth connection.



Step 7: Pull the strap band (1) over Neck Pad to secure Main Unit in position.



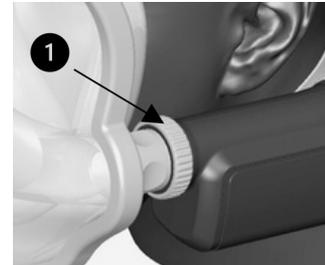
Step 8: For optimal comfort and fit, adjust straps to position Main Unit off and parallel with shoulders as follows:

- To lift Main Unit further above shoulders, loosen bottom two straps and tighten top two.
- To lower Main Unit closer to shoulders, loosen top two straps and tighten bottom two.

Doffing (Full-Face Mask PAPR System)



Step 1: Pull the strap band (1) off the Neck Pad.



Step 2: Hold Main Unit at one side while twisting Release Ring to disconnect mask plug. Repeat the other side, then take off Main Unit.



Step 3: Loosen the bottom straps and take off the mask.



Step 4: Push-fit the Guard Ring back to the Main Unit.

Battery Charging

- Locate the charging port at the bottom right corner of the Power Unit Casing.
- Open the Charging Port Cover and plug in AC adaptor plug to charge.
- Close the Charging Port Cover firmly when finished.

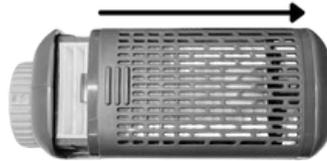


Particulate Filter Replacement

Changing Pre-Filter



Step 1: Twist the Knob to unlock (🔓) position.



Step 2: Slide Filter Unit door out.



Step 3: Using end-tab, pull out old pre-filter and insert replacement filter.

Step 4: Slide the door back and twist the knob to lock (🔒) position.

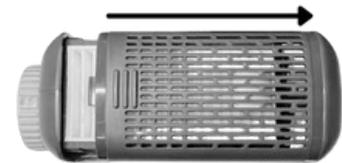
Changing the Main Filter



Step 1: Twist Filter Unit to unlock from Power Unit and remove.



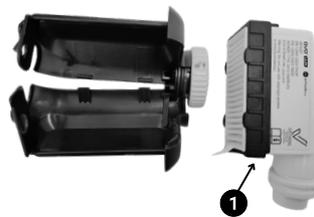
Step 2: Twist the Knob to unlock (🔓) position.



Step 3: Slide Filter Unit door out.



Step 4: While holding the Inner Case and the rubber frame, pull open the outer case.



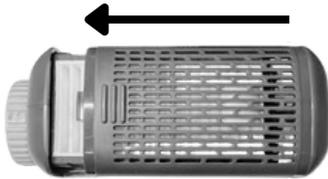
Step 5: Remove filter assembly (1) from casing.



Step 6: Remove the Main Filter from the Pre-Filter Assembly and replace with a new one.



Step 7: Place the filter assembly back in the Inner Case, making sure the Inner Case edge aligns with the groove at the outlet of the Main Filter.



Step 9: Slide the filter door back and lock the door.



Step 8: Close the Outer Case and press the 2 halves together with a 'click'.



Step 10: Attach the Filter Unit to the Power Unit.

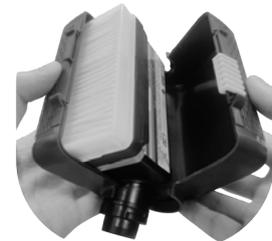
Combined Filter Replacement



Step 1: Twist Gas Filter to unlock from Power Unit and remove.



Step 2: Slide button to unlock and open up casing halves.



Step 3: Take out the filter assembly.



Step 4: Replace chosen component as below:

HEPA Filter:

Pull HEPA filter (1) out from rubber frame and replace with new filter. Ensure arrow corresponds with air intake direction.

Gas Cartridge:

Lift gas cartridge (2) off rubber frame and replace with new cartridge.

Step 5: Fit the filter assembly back to the casing, close the case, and push the Slide Button to the lock position.

Step 6: Attach the Gas Filter Unit to the Power Unit.

Inspection and Maintenance

Daily Visual Check

1. Ensure the Filter Unit is twist-locked to the Power Unit securely.
2. If the filter looks dirty or damaged.
3. Ensure the Filter Unit door is locked.
4. Check the bellows are free of punctures and tears.
5. Check the Main Unit Release Rings can rotate freely.



Main Unit Flow Capacity Test Before Each Use

1. Connect Guard Link to Main Unit correctly and open **Flow Test Plug (1)**.
2. In Standby Mode, Press **MODE button** to begin test.
3. LEDs will show flow test result within 3 seconds after blower stops before resuming for battery indication.
 - a. Main Unit with clean filters and full battery should achieve 3 lit LEDs.
 - b. System fit for use with 2 LEDs, but filter may need changing soon, or battery needs charging.
4. Close Flow Test Plug after test to keep out dirt and debris.



Cleaning

Daily Cleaning

Cleaning the Main Unit

Wiping:

1. Use a clean damp cloth or disinfectant wipe to wipe casing of Main Unit, especially dust on Release Rings.
2. Twist Release Rings a few times, make sure they are free to return and not getting stuck. Otherwise, a deep cleaning is needed.

Refer to [Quick-Connect Socket Cleaning Guide](#) for the deep cleaning details.

Cleaning Mask

1. Use clean damp cloth or disinfectant wipe to wipe mask inside and outside.
2. If mask is very dirty, flush with tap water, then wipe dry.
3. Leave in clean and open place to dry.

Washing The Bellow Section

1. Push-fit Guard Link to Main Unit.
2. Hold on Guard Link and use tap water to flush the bellow section.
3. Wipe dry.



← Do not flush-wash the casing.
(Water should not cross the yellow line.)

Quarterly Cleaning - Refer to User Manual for details.



Certificate
and DoC



User Manual



Training Videos

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