

# AEROFIT™ USER MANUAL

*Your Complete AeroFit™ Respirator Fit Tester User Manual*



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## Introduction

AeroFit™ is a condensation nuclei counting (CNC) respirator fit testing device. It is designed to provide quantitative fit factors for any tight-fitting respirator including disposable respirators (such as N95, FFP2, and P2). The fit factors provided are an assessment of fit during the fit test and are not to be used to determine actual exposure as respirator fit varies at different times due to many factors. AeroFit™ can be used standalone or with optional OHD Logic software. When testing without a computer, all reports and test data may be retrieved from the device. Data can be imported into Logic software.

## Safety and Environmental

This section provides information and instructions to ensure that AeroFit™ is operated properly and with safety in mind.

## Classification of Warnings and Markings



**WARNING:** A **WARNING** indicates that improper operation of the device may cause serious harm to the user or permanent damage to the equipment. Always follow the safety instructions in this manual to ensure correct and safe use.



**CAUTION:** The term **CAUTION** is used to remind you to act with care. Not following the recommended steps may cause damage to the device or require rework of previously completed procedures. It also signals important guidance for operating and maintaining the device.

The device and any related documentation, including this manual, must be reviewed carefully for familiarization with safety markings and instructions before operating the device. AeroFit™ is for use at an altitude of up to 2000m (6500 feet). The maximum relative humidity is 90% noncondensing and pollution degree 2. AeroFit™ may not function properly beyond the specified operable environment. The operating temperature range is 15 to 35°C (59 to 95°F) when powered by the external power supply; 15 to 35°C (59 to 95°F) when powered by the optional battery pack, and 15 to 29°C (59 to 84°F) when powered by the external power supply with the optional battery pack installed. If the AeroFit™ is not used specifically in the manner outlined in this manual and for its intended use, there is a risk of critical damage to the device, and any manufacturer's warranty will be voided. Under abnormal conditions, such as static discharge, it may be necessary to cycle power to achieve proper operation.

If the included power supply becomes faulty or damaged, it must be replaced with OHD part number FTK 3010-4021, whose ratings are listed in Appendix A: Specifications. The AeroFit™ has an optional removable/rechargeable battery pack. Only the OHD battery pack part number FTK 3010-4023 may be used with the AeroFit™. Visit [www.ohdglobal.com](http://www.ohdglobal.com), email [sales@ohdglobal.com](mailto:sales@ohdglobal.com), or call OHD (+1.205.980.0180) for information on purchasing replacement power supplies and/or battery packs.



**WARNING:** Do not disassemble, modify, or attempt to repair the device. It can be extremely dangerous (See Laser Safety Information below), and any manufacturer's warranty will be voided. If an unusual odor, abnormal noise, or smoke is observed, or if any unintended liquid enters the device, turn the power off immediately, remove the battery, and/or disconnect the power cable if connected, as this may result in electric shock, fire, or damage to the device.

When the device is not in use, unplug the power cord. Failure to observe this may result in electric shock, fire, or damage to the internal circuit. When using the power cord, make sure that the plug is clean and dry. Use the device in a location where the power cord is accessible for easy disconnection. The AC outlet used must be within the specified power requirement to prevent the risk of fire. Use only the power cord and/or the AC adapter provided with this device. Other commercially available cords may have different voltage specifications and polarity, which may result in short circuits, fire, or damage to the device.

### Chemical Safety Information



Your AeroFit™ comes with a 10-pack of 2oz bottles filled with 99.9% reagent grade isopropyl alcohol. You may choose to source alcohol elsewhere but ensure that it is 99.9% reagent grade isopropyl alcohol. Failure to use the correct purity of alcohol will result in damage to the device over time, and inaccurate results.

The information below pertains to the alcohol supplied by OHD. For other sources of alcohol, consult the supplier for proper usage, storage, and safety procedures.

### GHS Classification

#### Hazard Statements:

**H225:** Highly Flammable liquid and vapor [Danger Flammable liquids]

**H316:** Causes mild skin irritation

**H319:** Causes serious eye irritation [Warning Serious eye damage/eye irritation]

**H336:** May cause drowsiness or dizziness [Warning Specific target organ toxicity, single exposure; Narcotic effects]

#### Precautionary Statements:

P210, P233, P240, P241, P242, P243, P261, P264, P271, P280, P303+P361+P353, P304+P340, P305+P351+P338, P312, P337+P313, P332+P313, P370+P378, P403+P233, P405, and P501

The alcohol used with these devices is 99.9% reagent grade isopropyl alcohol. It must be stored, cared for, and disposed of properly. The use of other grades/types of alcohol may damage the device.



**WARNING:** Do NOT use this device in an area with a corrosive or acidic atmosphere.



**WARNING:** Under no circumstances shall the optional rechargeable battery pack (FTK3010-4023) be shipped together with any quantity of the 99.9% reagent-grade alcohol provided. Co-packaging or joint shipment of these items is strictly prohibited under any circumstances.



**CAUTION:** Static electrical discharge to the device may impact measurement value and/or damage internal circuitry.

Do not use or leave this device in an environment exceeding or falling below the specified temperature or relative humidity levels for the device. The device should not be exposed to direct sunlight for prolonged periods of time. If AeroFit™ has been stored in a cold environment, allow the device to come to temperature equilibrium with the environment in which it will be operated before turning it on. A sudden, drastic temperature change may cause condensation. Condensation can lead to inaccurate measurements or, if extreme, could damage internal components.

Do not expose AeroFit™ to strong shocks or place heavy objects on the device, as this may cause malfunction or damage.

Do not allow the device to draw in highly concentrated particles that exceed the specification level (>100,000 particles/cc).

If the AeroFit™ is not used specifically in the manner outlined in this manual and for its intended use, the protection of the device may become impaired.

#### **Statement on Cross-Contamination**

The risk of cross-contamination resulting from the use of AeroFit™ is very minimal. Fit testing itself does not increase or decrease a person's risk of exposure to any virus or illness. The real threat is coming into close contact with an infected person, no matter the location or activity.

The AeroFit™ pulls air out of the respirator into the device. No air is ever reintroduced to the respirator being worn by the test subject. The chances of contaminated air being in the system are, at worst, no more likely than contaminated air being in the surrounding environment. If an infected person were to be fit tested, air from their breathing zone would be taken into the device, particles would be counted, and all air would be exhausted through an internal HEPA filter.

AeroFit™ and accessories are subject to surface contamination like any item in the test area. For protection against the transference of surface contamination, all possibly contaminated surfaces that the operator or subjects may contact need to be disinfected. This includes the AeroFit™ and accessories. The adapter kits may be cleaned either by immersion, spray, or wipe with an EPA approved disinfectant. The adapter should be dry before use in a fit test. The AeroFit™ tubing should be carefully wiped down with an EPA-approved disinfectant.

If there is a threat of contamination, the fit test operator should take precautions when carrying out fit testing according to the guidance provided by the CDC.

If respirators are shared for fit testing, the fit test operator should follow OSHA 1910.134 Appendix B-2 Respirator Cleaning Procedures or the manufacturer's guidelines for the disinfection of the respirator to avoid any cross-contamination.

## General Specifications

Input Voltage: 12VDC, Center Positive, 3A Max

Power Supply: Universal, 100-240VAC, 50/60Hz 1A Max

Operating Temperature (max based on configuration): 15-35°C

Relative Humidity Range: 10%-90% (non-condensing)

Setup Memory

Size(H) 11 x (W) 4.4 x (D) 15 inches

Weight: 9 lbs

Display: 800 x 480 pixels

Touchscreen: Capacitive Touch

Environmental Pollution Degree: 2

Certifications

Laser

Laser Classification

This device is classified as a Class 1 Laser Product in accordance with the following standards: 21CFR1040.10 and 1041.11

## Laser Safety Information

This device utilizes a laser diode as the light source of the sensor inside the unit. Do not disassemble the device or the optical sensor inside the unit.

Any attempt by a user to control, adjust, or perform maintenance procedures other than those specified in this manual may result in hazardous exposure to laser radiation.

Wavelength 639nm Maximum output 12mW

Beam emission angle 6-12°(Parallel) 16-24°(Perpendicular)

## Service

Should service be needed for your device, contact the OHD Service Department. For service and operation questions, contact OHD: [service@ohdglobal.com](mailto:service@ohdglobal.com), +1.205.980.0180.

For those devices outside the U.S.A., visit [ohdglobal.com](http://ohdglobal.com) to find your nearest service center.



**CAUTION:** The AeroFit™ is intended to be serviced only by authorized service personnel. Service procedures should only be performed by qualified technicians. If the AeroFit™ appears to be tampered with, this may render the warranty null and void.

## Disposal

Disposal of the device or any part therein should be in line with any local or national regulation(s).



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# Welcome

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In this manual we will walk you through the setup, operation, and maintenance of your AeroFit™ respirator fit test device hardware and software.

AeroFit™ is designed to measure fit factors for all respirators, including disposable filtering facepiece respirators (N95, FFP1, FFP2, FFP3). AeroFit™ has unique features designed to enhance the user's experience and make fit testing more efficient.

## **Fit Testing Precautions**

Test subjects who smoke can exhale particles for up to 30 minutes after their last cigarette; thus, test subjects should refrain from smoking for 30 minutes prior to fit testing. Failure to do so may result in lower fit factors and lead to fit test failures.

Fit testing near irritant smoke used for qualitative fit testing operations may lead to corrosion in the AeroFit™. Do not operate or store the AeroFit™ in environments where irritant smoke is being used for any process including fit testing.

# How the AeroFit™ Works

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AeroFit™ uses approved CNC fit test protocols accepted by global regulations to test the seal of a respirator to a test subject's face.

Condensation Nuclei Counting (CNC), also referred to as ambient aerosol, or Ambient Particle Counting (APC) fit testing, uses airborne particles to challenge the fit of a respirator. Within this manual, we will refer to the technology as CNC. The theory of CNC fit testing states that if a respirator is equipped with P100 (99.97 percent efficiency) filters, then we can measure the concentration of particles both outside and inside the respirator to assess the fit. Because the filter efficiency of the respirator is practically 100 percent, then particles measured in the respirator must be entering through a leak.

## Fit Factor

With AeroFit™, the fit factor is measured by comparing the concentration of particles inside the respirator to the concentration of particles outside the respirator. The ratio of particle concentration outside/particle concentration inside is used to calculate a fit factor for each exercise within the given protocol. Finally, an overall fit factor calculation is used to determine the overall fit factor of the respirator on the test subject. Passing fit factors are set by the governing body that approved the protocol. The AeroFit™ determines a pass or fail based on the guidelines of each governing body.

Each individual test step fit factor is calculated as follows:

$$\text{Fit Factor} = \frac{\text{Concentration Outside the Respirator}}{\text{Concentration Inside the Respirator}}$$

The overall fit factor is calculated by using the harmonic mean of the fit testing steps as follows:

$$\text{Overall Fit Factor} = \frac{N}{\left[ \left( \frac{1}{FF1} \right) + \left( \frac{1}{FF2} \right) + \dots + \left( \frac{1}{FFN} \right) \right]}$$

Where:

**N** = The number of exercises;

FF1 = The fit factor for the first exercise;

FF2 = The fit factor for the second exercise;

and FFN = The fit factor for the nth exercise

# Instrument Setup

---

The AeroFit™ machine and package comes with all the components necessary to execute up to 500 disposable respirator fit tests. Additional adapters may be necessary if fit testing full or half face elastomeric respirators.

## What comes with the AeroFit™?

- The AeroFit™ Respirator Fit Tester
- Power supply and power cord
- Twin Tubing
- Wick storage container
- Wick assembly
- A red storage cap
- 2 spare wicks
- 10 2 oz bottles of reagent-grade isopropyl alcohol
- 500 push nuts and 500 probes
- A probing tool
- A lanyard to hold tubing during disposable respirator fit testing
- Particle generator and connection cord
- USB cable
- USB thumb drive
- Hard case with extendable handle and wheels
- Logic PC software
- Calibration Certificate

## Unpacking the AeroFit™ Carrying Case:

Release the two latches on the front of the case by depressing the moveable lever under each latch.

## Available Accessories

- Respirator adapters (required for fit testing)
- Rechargeable battery pack
- Printer (standard printer and/or card printer)
- USB Keyboard
- Logic Cloud software

## Startup

First ensure the wick within the wick assembly is charged with alcohol in the alcohol storage capsule.

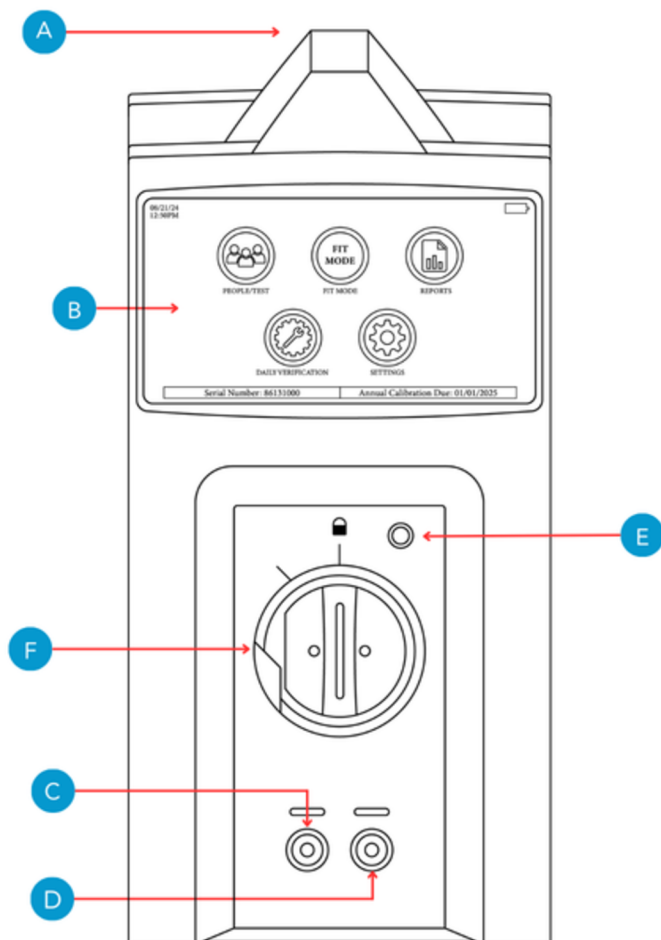
Remove the wick assembly from the capsule and fill the reservoir with the reagent-grade alcohol provided to the fill line (at a minimum) marked "Alcohol Window." Then, reinsert the wick assembly and allow the wick to soak for 3-5 minutes. Don't overfill the capsule more than halfway as the alcohol will overflow.

Once the wick assembly is reinserted, turn it clockwise to lock it into place, making sure the bottom of the wick is submerged. This allows the wick to absorb alcohol before fit testing.

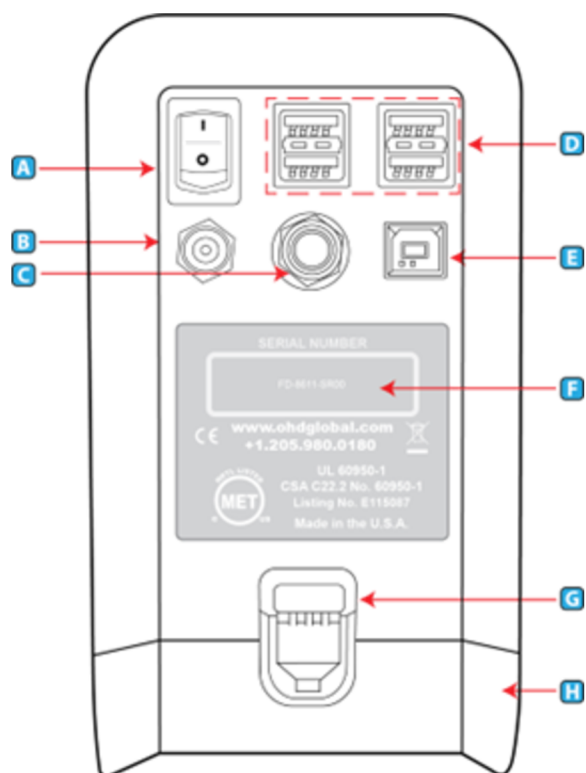
- Connect the power supply or insert the battery.
- Connect the Particle Generator to the back of the AeroFit™ and fill with water as directed in the Particle Generation Management section.
- Turn on the device with the rocker switch on the rear panel
- Follow the Startup Wizard (during initial setup only)
- Follow instructions for Daily Verification
- Ready to test

## Instrument Front Connections

- A. Carrying Handle
- B. Color Touch Screen
- C. Blue Tube Connection
- D. Clear Tube Connection
- E. Daily Verification Zero Port
- F. Wick/Bore Chamber



## Instrument Rear Connections



- A. **On-Off Switch** - The On-Off Switch functions like a standard power switch. Toggle up ( I ) and the power is turned on. Toggle the switch down ( o ) and the power is turned off.
- B. **12 VDC, 3A (max) Power Connection** - The power connection is to supply power to the unit, and the universal power supply shipped with the AeroFit™ must be used.
- C. **Particle Generator Connection** – If using the Particle Generator and OHD's Particle Generation Management, its cord must be inserted into this port.
- D. **USB Devices (4)** - The four standard USB ports may be used to connect a keyboard, printer, or USB drive.
- E. **USB PC Port** - The USB PC Port is used to connect AeroFit™ to a personal computer. The AeroFit™ is shipped with a supplied cable for this purpose. The USB symbol on the cable must face up to properly insert this cable. This cable allows for the AeroFit™ to be operated from the software supplied.
- F. **Serial Number** - Located in the center, the serial number is important should you require service or support. All records are kept according to the serial number.
- G. **Battery Latch** - Push down on this latch to release the battery pack and pull outward to remove it.
- H. **Battery Pack (optional) or Shell** - When using an optional battery pack to operate the AeroFit™, it will be inserted here. When no battery pack is purchased, this cavity will be filled with a blank cover.
- I. **Bluetooth Module (internal, not shown)** - When purchased with the Bluetooth® function, the AeroFit™ can wirelessly connect to a computer with Bluetooth® capability.



**CAUTION:** It is vital to open Logic software to pair the device. See Logic Software section.

OHD Logic software allows users to run multiple machines simultaneously, with flexibility at the start time for any test. Standard Bluetooth® allows testing to happen from across the room.

### Connecting Tubes to the AeroFit™

The twin tubing set consists of two tubes (blue and clear). The blue tube samples the ambient air and connects to the machine on the bottom left port. The clear tube sample is inside the respirator, and it connects to the machine on the bottom right port.

The ends of the tubing that connect to the device are those that have click-to-connect connections. The blue tube has a male connection, and the clear tube has a female connection. To connect the tubes to the device, it is best to push the connections into place while holding the tube, not the connection.

When performing a daily verification, follow the instructions and use the on-screen drawings to connect the other end of the clear tube to the zero port when instructed. The clear tube that attaches to the zero port is 5-6 inches longer than the blue tube.

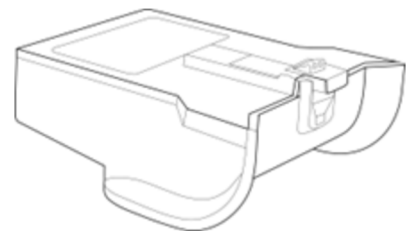
### On the Adapter

It is best to connect the clear sample tube to the respirator while holding the respirator in your hand, not while the test subject is wearing the respirator. Ensure the clear tube is connected securely to the respirator adapter, and that there are no obvious leaks.

Note: Each adapter is different, and some adapters may require assembly. All adapters are constructed with a 1/8" port to connect the clear sample line.

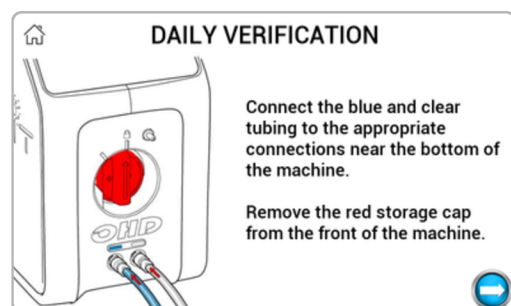
### Battery

The optional battery pack can be used in lieu of the power cord. When a battery is in place, if the AeroFit™ is plugged into a wall outlet and the building loses power, the battery will automatically take over without any interruption to the fit test. The battery may be charged while connected to power, whether the AeroFit™ is in use or not. When fully charged, the battery typically yields approximately four hours of typical testing.



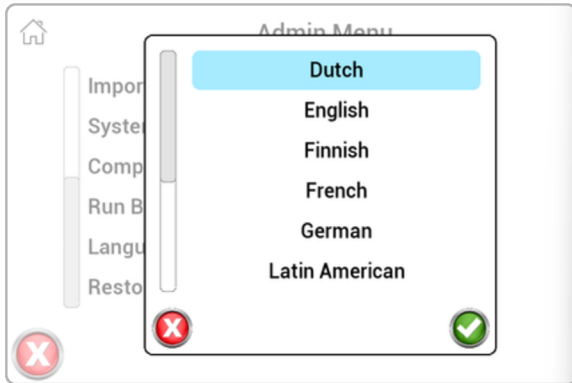
### Daily Verification

Daily verification is required for each day of testing. This check ensures the device is measuring particles when they are present, has no internal leaks, and that all moving components are working correctly. See the Daily Verification section for more information.



# Startup Wizard

The startup wizard allows the user to customize settings within AeroFit™ that will remain unchanged unless updated manually. These settings will help make the user more efficient when fit testing and can protect the user from improper data inputs.

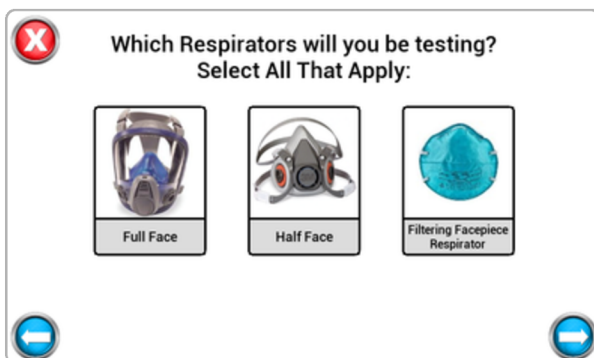
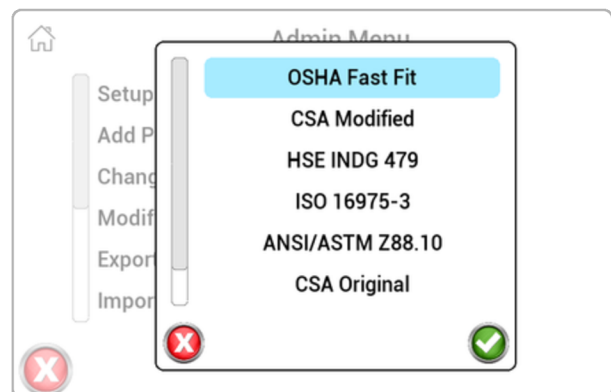


## Language

Select your preferred language here.

## Regulation

The operator will be required to select the regulation that will be followed for testing in any specific region. This can be changed in the Settings>Admin Menu screen if there is a need to switch regulations. The regulation controls all the test parameters.

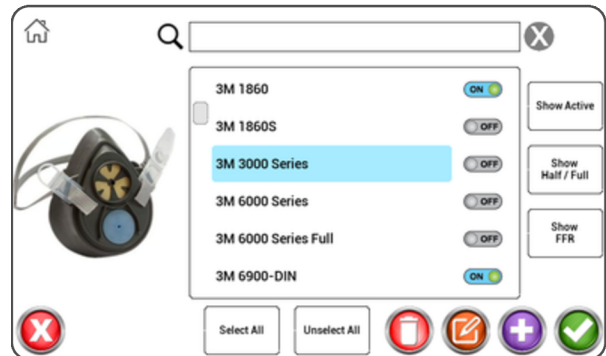


## Respirator Designation

In the respirator selection, identify the types of respirators you will be fit testing. Select all respirator types that apply to your fit testing applications. This selection will change how the daily verification is performed. To change this selection daily, review the Onboard Settings section of this manual.

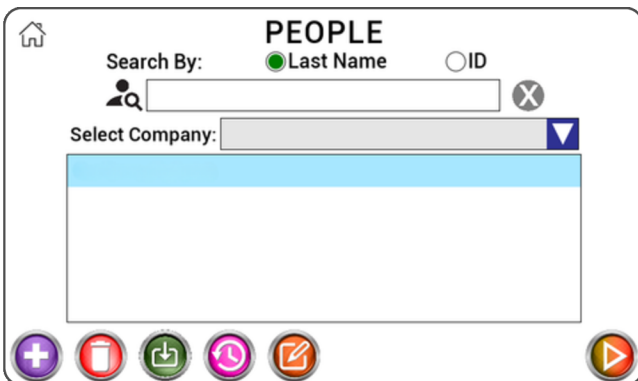
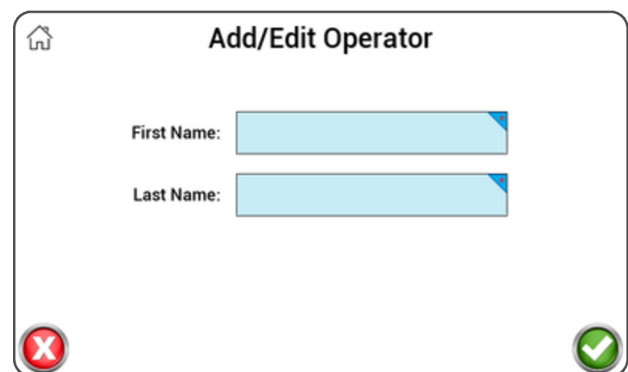
## Respirator Selection

Find the respirator(s) that will be used for fit testing and toggle the on/off switch to on. If a particular respirator has not been determined, you may select any respirator and continue. This can be changed later in the Settings>Setup Respirators section. Using the buttons on the right, you can filter by respirator type and selection.



## Operators

For every test performed on the AeroFit™, an operator must be assigned to the record. The Operator screen is used to add/edit operators in the database. Enter one or more operators. Additional operators can be added in the Settings > Admin Menu section at any time.



## People/Test

In the People/Test screen, people can be added one by one, imported from a list, or added at the time of a test. The People screen is the last screen in the setup wizard. The operator may close this window or perform fit tests. See Performing a Test instructions in this manual.

# Particle Generation Management

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Particle Generation Management (PGM) is a patented feature in the AeroFit™ that is designed to maintain the fit test environment throughout the fit test. PGM uses a timed sequence of particle releases to ensure the fit test environment is optimal during the fit test, and that a particle concentration is maintained in the fit test environment throughout testing. PGM protects the AeroFit™ from oversaturating the fit test environment with particles that can lead to clogs in the device.

To set up your PGM system on your AeroFit™, use the following QR code, or see the steps below.








## Step-by-step set up for your Particle Generation Management System:

1. Insert the auxiliary jack on the power cable into the auxiliary port on the back of your AeroFit™. This is the power supply for your particle generator.
2. Connect the particle generator to the AeroFit™ by inserting the other end of the power cable into the 24V port on the back of the particle generator.
3. Fill a small plastic water bottle with tap water and insert the particle generator adapter in the top of the bottle. The adapter should press into the bottle and fit snugly. Distilled water should not be used with the particle generator. The system will not produce particles if used.
4. Turn the water bottle upside down and place it at the top of the particle generator.
5. Turn the knob on the back of the particle generator clockwise to set the particle flow.
6. Open the flap on the front of the particle generator to allow particles to be released.
7. Position the particle generator so that particles are being released in the direction of the fit test subject.
8. Refill water as needed.








# Navigation

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The AeroFit™ is operated by the color touch on the front of the device. When pressing any button, there will be a "click-tone". The volume of this tone can be changed in the System Settings menu. There are five major modules to select from:

-  **People/Test:** Where people are added, edited, or imported, and where tests are initiated.
-  **Fit Mode:** Real-time measurements of ambient particle concentration and fit factor based on respirator.
-  **Reports:** Reports that can be printed out or exported one at a time, in bulk, or by date, company, or group.
-  **Daily Verification:** Used to perform the daily verification requirement for each day of operation.
-  **Settings:** Contains parameters that can be changed for the convenience or requirement of the operator.

Other buttons you will see are:

-  **Add:** This button will allow the user to add to the records currently viewed, e.g., person, respirator, etc.
-  **Admin Menu:** Entry to a menu for secure and important settings.
-  **Cancel:** This button will close the current screen. Any values entered by the operator on the screen will not be saved.
-  **Delete:** Removes an item from a list.
-  **Import:** For loading people into the AeroFit™ from a USB drive with the appropriate import template.
-  **Edit:** Allows the operator to change information for the selected item.
-  **Go Back:** The back button will allow the operator to return to the previous screen.



**Go Down:** To move down through a list.



**Go Forward:** This button will guide the operator to the next screen in the sequence.



**Go Up:** This button will guide the operator to move up in a list.



**Next:** Takes the operator from the People screen to the test screen.



**Help:** Dynamic help according to the screen being viewed.



**History:** Will allow the operator to see recorded information regarding the selected person.



**Home:** Will bring the operator back to the Home screen.



**Print:** The print button allows the user to print a report related to the current screen.



**Retry:** When a test step is interrupted, this allows the test subject to retry that step. This button will be visible for one of two reasons: 1. If the test is manually aborted or fails due to low concentration. 2. Post-test to retest the same test subject.



**Save:** The green checkmark will save the information entered on the screen.



**Search:** A field available on the People screen that allows a search by PID or last name to find the desired test subject quickly and easily.



**Setup Respirators:** Add, edit, or delete respirators.



**System Information:** Information including software version, serial number, calibration due date, etc.



**Update Software:** Used when an update is available and saved on a USB drive.

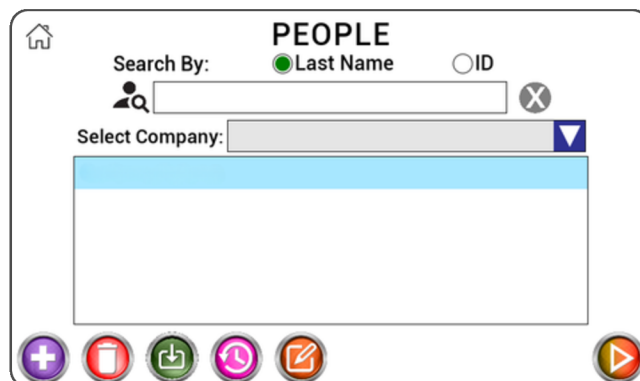


**USB Save:** Save report or information to a USB drive plugged into the AeroFit™.

# People/Test

## A. Search

Test subjects may be searched by last name or by their ID. Click the button to be used for the search. The search will default to Last Name. Press the X at the end of the search bar to reset all search criteria. Partial names or numbers may be used in the search.



For example:

- Enter an "E" in the search, and all those in the database with the last name starting with "E" will be displayed.
- When a company is selected and typing in an "E", only those names starting with "E" and within the company selection will be shown.

## B. Select Company

Company is intended to create a division among the test subjects who are entered into the onboard database. To add a company to the AeroFit™ database, type in a company name when adding a test subject to the database. The company will be saved automatically along with the test record.

Note: To delete a company, every test subject assigned to that company must be reassigned to a new company or deleted from the unit. Once the last test subject assigned to that company is deleted/reassigned, the company will delete.



**CAUTION:** When entering the name of a company, it is critical that it exactly matches the previous entries, or a new company will be created.

## C. Add

The Add button will open a screen that will require test subject information. The fields available are Name, ID, Company, and Notes.

## D. Delete

When a test subject is selected, press on this icon to delete this person from the device. There will be a prompt asking if you are sure that you want to delete this person from the database.



**CAUTION:** After deletion, a test subject cannot be restored.

**E.  Import**

The import feature allows test subjects to be uploaded in bulk. This can be done through a CSV file found here on our website. See Appendix B: Import Personnel Template for import requirements.

**F.  History**

When a test subject is selected and the history button is pressed, a screen will show any existing tests for this person. Tests will be listed by date.

**G.  Edit**

When selecting a test subject and pressing on the edit button, there will be an opportunity to change the saved information for this person. This includes Name, ID, Company, and Notes.

**H.  Next**

When a test subject is selected, the Next button will move to the test screen.

# Performing a Fit Test

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## Preparing the Respirator

Filtering facepiece respirators (such as N95s) require the user to insert a nonremovable probe into the respirator. This probe allows the AeroFit™ to sample inside the respirator. Applying this probe to the respirator will make the respirator unfit for use as respiratory protection. The user should discard the respirator once the fit test is complete. Steps to insert the probe are as follows:

1. Insert the flanged side of the probe over the needle on the base of the AeroFit™ probe tool.
2. With the convex side facing up, slide the push nut onto the magnet on the top side of the AeroFit™ probe tool.
3. Slide the respirator over the needle to align the needle in the desired location on the respirator, ideally in the middle. The outside of the respirator should be facing up, the inside of the respirator should be facing down, over the needle. Secure cut piece to respirator breathing zone inside the nose cup using the black suction cup and forked prong.
4. With the probe tool sitting on a flat surface. Press down on the top of the tool until you feel the needle push through the respirator.
5. Remove pressure and allow the probe tool to become uncompressed.
6. Remove the probed respirator from the probe tool.
7. Attach the clear sample line to the probe inserted in the respirator by pushing the tube over the probe. The sample line should be connected to the respirator BEFORE the test subject dons the respirator.
8. Have the test subject don the respirator and begin the fit test process.

- Full and Half Face Elastomeric Respirator - Full and half face elastomeric respirators require specific adapters. Adapters come with P100 filters to properly challenge the respirator seal.

1. Connect the P100 filter to the proper end of the adapter.
2. Cut a piece of the ¼" tube provided and attach it to the barb on the inside of the adapter. The piece should be long enough to enter the breathing zone of the respirator
3. Feed the tube into the breathing zone of the respirator and connect the assembled adapter to the respirator.
4. Attach the clear line from the AeroFit™ to the port of the adapter outside of the respirator.
5. Have the test subject don the respirator and begin the fit test process.

## Beginning a Fit Test

After selecting or adding a person and advancing to the Test Information page, the test can be initiated by pressing the Blue Arrow to advance. During each step, written instructions will be displayed on the left of the screen, visual instructions will appear in the middle of the screen, and a fit test progress indicator will appear on the right of the screen.

### Initiating the test step:

At the end of each step, an audio tone will be played to let the test subject know they are able to move on to the next exercise. The screen will automatically advance the instructions for each exercise as they are sequenced in the selected standard.



**Press the People/Test button to enter the Test Screen**

The People screen prompts the operator or test subject to select or fill in the details of the person being fit tested.

- Search individuals in the database by selecting either “Last Name” or “Company” and typing in the desired search criteria.
- Add a new person by pressing the purple + button on the bottom left.

The screenshot shows the 'PEOPLE' screen with a search bar and a list of individuals. The search bar has 'Last Name' selected. The 'Select Company' dropdown is set to 'OHD'. The list contains three entries:

Name	ID
Chandler, Hunter	00001
Flowers, Laura	98765
Lynch, Stephanie	12345

At the bottom, there are several navigation icons: a purple plus sign, a red trash can, a green share icon, a pink timer icon, an orange edit icon, and a yellow play button.

Select the desired test subject by pressing their name on screen, and then press the orange advance arrow in the bottom right to continue.

The screenshot shows the 'ANSI/ASTM Z88.10 Regulation' screen with four input fields:

- Person: [Empty text field]
- Respirator: [3M 1860 dropdown menu]
- Size: [Medium dropdown menu]
- Operator: [Empty dropdown menu]

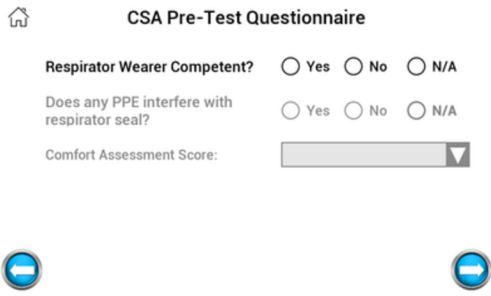
At the bottom, there are two blue arrows: one pointing left and one pointing right.

### Test Creator Screen

The test creator screen prompts the user to select the Respirator, Size, and Operator for the fit test.

- The Respirator selection will only show the respirators that have been toggled on during the setup wizard or in the Setup Respirators module on the settings screen.

Press the Blue arrow at the bottom right to advance to either the pre-test questionnaire (if applicable to your selected regulation) or the Test Information Screen.



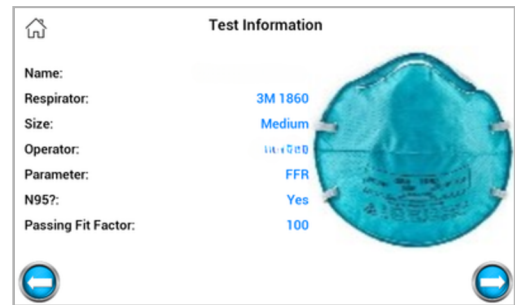
**Pre-Test Questionnaire** (if applicable to your selected regulation)

This screen prompts the operator to fill out the pre-test questionnaire for the selected regulation. These questions will be visible on the completed fit test report.

### Test Information Screen

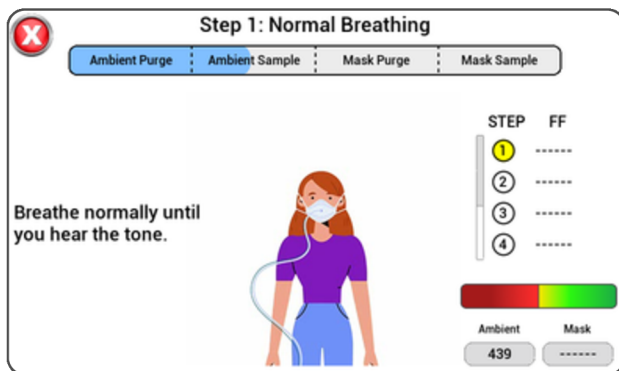
This screen allows the test administrator and test subject to review and verify that the test subject, respirator, and other test parameters are accurate.

Press the blue arrow at the bottom right to advance to the test.



### Operator Signature

After the details of the test have been confirmed, the operator can progress to input their signature on screen, if desired. This feature can be turned off in Settings>System Settings>Signature Capture.

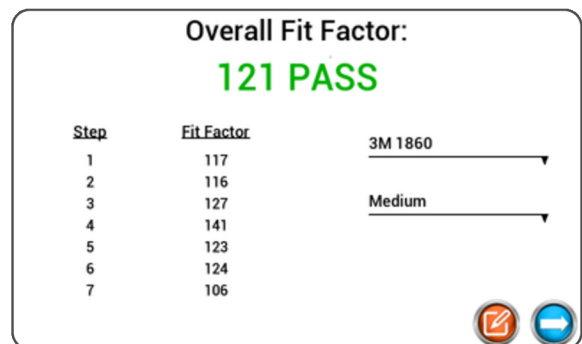


### Instruction Screen

The fit test subject should follow on-screen instruction for head and body movements specific to the chosen regulation.

### Overall Fit Factor Screen

At the end of the test, the results for each exercise are displayed along with an overall fit factor and the "PASS" or "FAIL" designation. Users can add a note with the fit test record, or press the Blue Arrow to advance.



**Post-Test Questionnaire** (if applicable to your selected regulation)

This screen prompts the operator to fill out the post-test questionnaire for the selected regulation. These questions will be visible on the completed fit test report.

**Post Test Signature**

After the final step, if the signature feature is enabled, the test subject will sign on the touchscreen. This setting can be turned on/off in Settings>System Settings>Signature Capture.



**Overall Fit Factor Screen**

The final screen of the fit test allows the user to print the report, generate a fit PDF, retest the test subject, or move onto the next subject. By choosing the Retest Subject option you will be redirected to the test creator screen with all the fields populated with the current test subject information. By selecting the Next Subject option, you will be redirected to the People/Test page and will be able to choose the next test subject from the list or add a new one if they are not yet in the database.

# Fit Mode



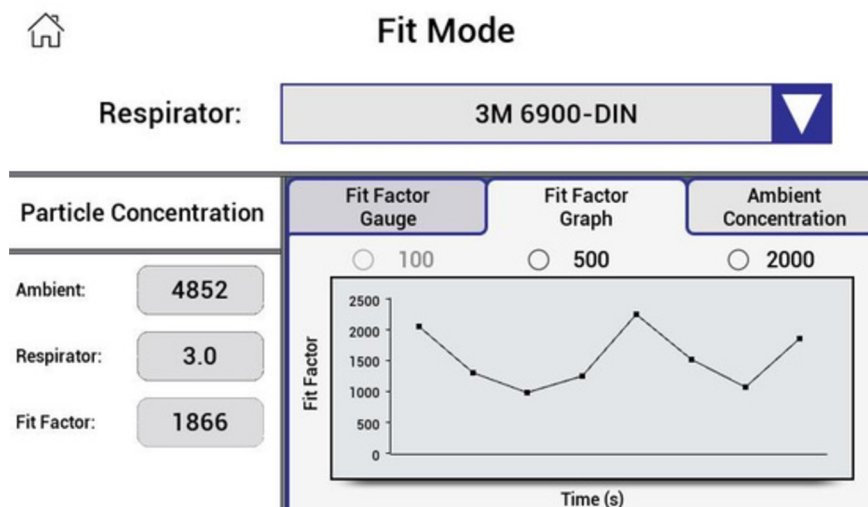
Fit Mode is a function used to provide real-time ambient concentration readings as well as evaluating a baseline of a respirator fit. This setting can be used for respirator training, such as proper donning and tightness, as well as troubleshooting a failed respirator fit test before reattempting.

To access Fit Mode, select the Yellow Fit Mode button at the top center of the Home Screen.

Once in Fit Mode, you must select a respirator, as this will ensure the AeroFit™ is sampling for the correct particle concentrations in ambient air and inside the respirator.

After selecting the respirator, the AeroFit™ will sample to gather a real-time Ambient Particle Concentration which will be displayed on the screen.

To get a sample of the real-time fit of a test subject, connect the clear sample tube to the test subject's respirator using an adapter or sample probe and then select either the Fit Factor Graph or Fit Factor Gauge tab.



Under these tabs you will be able to see a real-time fit factor as the respirator sample is taken. The Fit Factor Graph tab will graph the fit factor as the respirator sample is taken while the Fit Factor Gauge will use a displayed gauge to show where the Fit Factor would compare to a Pass/ Fail line. This gauge is what is used during testing steps within a fit test.

# Reports

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Reports may be printed at the time of the test or any time after the testing has been completed. The following reports are available on the AeroFit™:

## Fit Test Reports

- Individual

A single-page report that contains required data for a respirator fit test record. This report includes a fit test card at the bottom of the sheet for the test subject to keep.

- Summary

A report that will print the specified group of people in a condensed report, which allows for multiple people to be recorded on the same sheet.

Fit test reports can be selected by:

- Company
- Person
- Tests that fall within a specific date range

## Verification Reports

Quick selections include:

- Today
- Current week
- Last Week
- Current month
- Last month
- Custom [Date Range]

## Print/Export Reports

The reports can be saved as a PDF file, CSV file to a USB drive, or both, or printed directly to an approved printer. [See a list of approved printers here.](#)

# Daily Verification

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Daily verification is required for each day of testing.

When turning on the device for the first time each day, the operator will first be prompted with the daily verification message. Once the daily verification has been performed for the day, this message will no longer appear when the unit cycles power. The prompt resets at 12:00AM daily.

The Daily Verification is a series of tests to ensure the device and environment are suitable for fit testing. During the Daily Verification, four questions are validated:

1. Does the AeroFit™ see particles when they are known to be present?
2. Are enough particles in the test environment to execute a fit test?
3. Does the AeroFit™ detect zero particle concentration when a HEPA filter is placed in line?
4. Is the AeroFit™ able to measure particle concentrations from both the ambient and respirator lines when the flow path is switched?

## **The steps to executing a Daily Verification are as follows:**

1. Connect and initiate the particle generator by following the steps in the Particle Generation Management section.
2. Connect the clear and blue tubes to their male and female connections on the front of the AeroFit™.
3. Remove the red storage cap and insert the blue wick that has been charged for at least 3-5 minutes with isopropyl alcohol.
4. Turn on the AeroFit™ or select the Daily Verification icon from the home screen if the device is already turned on.
5. If you have turned on the “Ask Daily Verification Mask Type” setting, select the respirator types that you will be fit testing using the icons on the screen. If not, the respirator type(s) selected in the Startup Wizard will be used
  - a. Select all respirators that apply to your fit testing session.
    - i. If you are fit testing filtering facepiece respirators you will need to designate whether or not the respirator has a filter efficiency less than 99% (N95).

6. Follow the instructions on the touch screen and connect the clear end to the zero port when prompted.

- a. The AeroFit™ has internal timing sequences that will walk you through the Daily Verification process.

### **Troubleshooting Daily Verification:**

Troubleshooting a failed Daily Verification starts with determining the point at which the check was failed. Determine the failure point and use the guide below for basic troubleshooting.

#### **Classifier Check (N95 only)**

- Ensure that the wick is not so saturated that it is dripping alcohol. If it is, shake off excess alcohol.
- Ensure that the bore chamber does not have a puddle of alcohol. If it does, tilt the unit forward slightly to drain the alcohol out.
- If neither procedure resolves the issue, contact [OHD Tech Support](#).

#### **Zero Particles (minimum check)**

- Ensure that the wick was not left in the AeroFit™ overnight. If it was, go to “Settings” > “Admin Menu” > “Dry Mode”. Remove the wick, put the red storage cap on the AeroFit, and start dry mode. Let the AeroFit™ run for a minimum of 30 minutes uninterrupted while “Dry Mode” is engaged.
- Ensure that the wick is charged. Place the wick in the fill capsule with enough alcohol to reach the “Alcohol Window” on the side of the fill capsule. Recharge the wick in the fill capsule for 5 minutes.
- If neither procedure resolves the issue, contact [OHD Tech Support](#).

#### **N95 or TP Minimum Check (low concentration)**

- Turn the particle generation up, if possible.
- If under any vents, relocate to a different spot in the room.
- If any doors or windows are open, close them.
- If in a large room, move to a smaller one, if possible.

**N95 or TP Minimum Check (high concentration)**

- Turn the particle generation down, if possible.
- If any door or windows are closed, crack one open slightly.
- If in a very small room, move to a slightly larger one, if possible.

**N95 or TP Zero Port Check**

- When at the "Zero Port Filter Check" screen, where the instructions are "Connect the clear line to the zero port at the top of the machine", connect the clear line to the zero port and wait 30 seconds. After 30 seconds, press the blue right arrow to begin the check.
- Repeat the above procedure at least 3 times.
- If this procedure does not resolve the issue, contact [OHD Tech Support](#).

# Onboard Settings



## System settings

**Demo Mode** is only for use by OHD internal staff and distributors.

**Volume** allows the operator to increase or decrease the volume of the audio indicators that one might hear when testing or entering test data. The settings are 0 to 10, where 10 is the loudest.

**Brightness** allows the operator to increase or decrease the brightness of the display. The settings are 1 to 10, where 10 is the brightest.

**Auto Print** is turned on when the operator desires the test automatically to be printed upon completion of a fit test.

**Number of Prints** allows the operator to select the number of prints when printing reports. To be used when more than one copy is required.

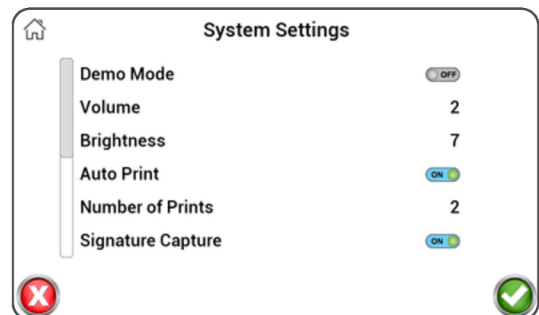
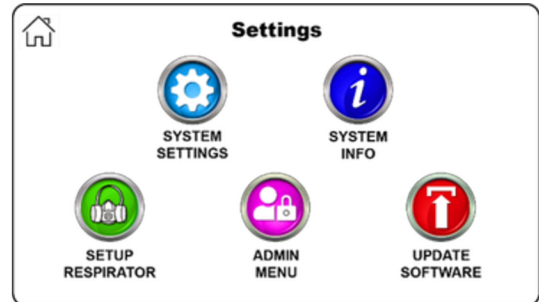
**Signature Capture** allows the operator to turn off the signature capture at the end of each test if the signatures are not necessary or desired.

**Ask Daily Verification Mask Type** requires the operator to specify the type of respirator they will be fit testing that day, prior to running a Daily Verification. If the user will only ever be using one type of respirator, that respirator type should be selected in the Start-up Wizard, and this field should automatically toggle off.

**Save Failed Fit Test Data** allows the operator to select the option to save fit test data even when the user fails the fit test.

**Save Fit Mode Data** allows the operator to select the option to log and save the data in the fit mode function.

**Particle Generator Management** allows the operator to toggle on/off the Particle Generation Management function in the AeroFit™. This function is a specially designed sequence of particle generation that optimizes the fit test environment.



**Date Format** allows the operator to change the date from MM/DD/YYYY to DD/MM/YYYY

**Keyboard** changes the on-screen keyboard layout between QWERTY and AZERTY.



### **System Information**

The information button will display helpful information when contacting OHD for support including:

- o **System Version** – The current version of on-board software
- o **Run Time** - The cumulative runtime since annual calibration
- o **Calibration Due Date** – The date the device is due for annual calibration
- o **Current Date** – Can be changed by touching the current value
- o **Current Time** – Can be changed by touching the current value



### **Setup Respirators**

AeroFit™ is populated with an extensive list of respirators. When selecting respirators, only those toggled "on" will be available as a selection on the Test Creator screen during a fit test. At the top of the screen, it will display your selected regulation.

If the respirator that is being tested does not appear on this list, a new respirator may be added to the list by clicking the purple plus button in the right-hand corner. The following fields will be required:

- Respirator Manufacturer & Model
- Full or half-face elastomeric or filtering face piece respirator (<99% efficient or not)

An optional image can be uploaded into the database from a thumb drive.

- The respirator image should be no larger than 240 pixels wide by 370 pixels tall.
- The respirator image should be a \*.png or a \*.jpg file.

When no image is uploaded, "No Image Available" will be shown in place of the image.



### **Admin Menu**

The Admin Menu is a directory for critical settings. These settings should be changed only by a person who has been trained and understands the purpose of each setting.

## **Setup Operators**

Operator setup is necessary to record those people who will be running the tests. To record an Operator, the following fields will be required:

- First Name
- Last Name

## **Change Regulation**

The AeroFit™ is designed so that when a regulation is selected, all tests are automatically executed with the correct settings. New regulations will be added in future updates as they become available or are modified.

## **Modify Sizes**

This allows you to modify, add, and delete sizes that are used for respirators.

## **Export Database to USB Drive**

Allows users to create and save a complete backup of the onboard database including people, fit tests, operators, selected respirators, and various other settings.

## **Import Database File from USB Drive**

This is how you restore a backup database and can also be used to share databases across multiple units. **When you import a database, all current information is replaced.**

## System Reset Options

There are numerous reset options according to which information needs to be reset:

- Clear People List will remove all the people from the current database.
- Clear Test Records will keep the people list but will delete all test information.
- Clear Operators will remove all operators listed in the unit.
- Restore System Defaults will change all operational settings to the settings that were originally implemented on the device. This option will not erase any of the information listed above.
- Reset to Factory Settings will remove all data on the AeroFit™ and it will operate as though it is the very first time the unit is powered up.

**Company Info for Reports** is a customizable header that will appear on reports printed directly from the AeroFit.

## Test Expiration Date on Reports

This option allows the operator to change the expiration date interval (in months) for reports.

## Run Battery Drain Procedure



**CAUTION:** Should be performed to prepare battery for shipping. Navigate to **Settings > Admin Menu > Run Battery Drain Procedure**. Please remember this as you prepare to ship your device back for annual calibration.

## Language

Change selected language

## Restore System to Backup Point

This setting is used only for troubleshooting under supervision of OHD staff.



### Update Software

Occasionally there will be updates to the on-board software. OHD will notify customers when an update is available if the unit has been registered.

The notification will come via email. The update can be downloaded from a website and saved to a USB Drive. With the USB Drive in any port on the back of the device, the Update Software button will ask the operator to select the update file. After the update, the device will automatically cycle power at the appropriate time, reboot the system, and be ready for testing.

# Maintenance, Service, and Troubleshooting

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AeroFit™ requires routine maintenance according to the instructions listed below, as well as an annual calibration to ensure AeroFit™ is operating within the manufacturer's specified guidelines.



**WARNING:** Under no circumstances should the outer casing be opened. Opening the outer case can be extremely dangerous and pose significant risk to both AeroFit™ and the operator. For any maintenance that is not outlined in this manual, contact your distributor or OHD.

## Calibration

AeroFit™ must be calibrated annually to ensure that readings are accurate and within specified parameters. Do not attempt to calibrate this device yourself. AeroFit™ must be calibrated at an OHD authorized facility. Calibration inquiries can be sent to [calibration@ohdglobal.com](mailto:calibration@ohdglobal.com) or visit our website, <https://ohdglobal.com/calibrations/>.



**WARNING:** Do not disassemble, modify, or attempt to repair the device. It can be extremely dangerous.

## Storage, Travel and Shipping Precautions

When storing, transporting, or shipping the AeroFit, the alcohol must be removed from the device to prevent flooding of the optics. Before placing the AeroFit™ back into the carrying case, remove the wick assembly from the AeroFit™ and place it into the alcohol fill capsule. The alcohol fill capsule is designed for safe storage and transportation of alcohol. The wick assembly may remain immersed in alcohol for an indefinite period.

Install the red storage cap over the bore chamber on the device. The storage cap prevents dirt or debris from entering the AeroFit™ during storage or transport.



**WARNING:** Under no circumstances shall the optional rechargeable battery pack (FTK3010-4023) be shipped together with any quantity of the 99.9% reagent-grade alcohol provided. Co-packaging or joint shipment of these items is strictly prohibited.

### **Disassembling the Wick Assembly**

If required, the wick may be replaced. Each AeroFit™ comes with two spare wicks at the time of purchase. Additional replacement wicks are available for purchase through OHD. Under normal operating conditions, wick replacement is rarely necessary; however, excessive moisture absorption may reduce concentration levels, requiring wick replacement.

Ensure that the alcohol used is 99.9% reagent grade alcohol. Lower concentration alcohols will expose the wick to excess moisture.

Never expose the wick to dirt, oil or other foreign materials/debris. Discoloration of the wick is expected with normal usage and does not impact operation. If the wick must be replaced, discard the old wick and insert a new one (see below).

#### **To remove the wick:**

1. Remove the wick assembly from the fill capsule or device.
2. With one hand holding the canister, and the other holding the blue cap. Gently twist and pull the cap away from the canister.



3. The wick should slide out freely. If the wick is very saturated, it may not freely slide out of the canister. In this case, carefully insert a long, thin object (like a paper clip) from the o-ring side to press the wick out.



4. Take your new wick, ensuring that it is free from dust or debris, and slide into the wick canister.



5. With one hand holding the canister and another holding the blue cap. Gently twist and push the cap into the canister, making sure not to pinch the black o-ring on the blue cap.
6. Recharge the new wick by placing the wick assembly in the fill capsule with 99.9% reagent-grade alcohol and charge for at least 3-5 minutes.

### **Nozzle Maintenance**

Within the AeroFit™, a small orifice located at the rear of the bore chamber directs airflow to the internal nozzle. Under normal operating conditions, this nozzle may become clogged over time. The rate of clogging is dependent on the operating environment. Use in dusty or contaminated environments may result in more frequent clogging. When the nozzle is clogged, the AeroFit™ will be unable to count particles.

### **Nozzle Cleaning Procedure**

Perform the following steps in the order listed:

#### **Method 1: Compressed Air Cleaning**

1. Using a can of compressed air, position the straw directly in front of the opening at the rear of the bore chamber.
2. Direct air into the opening continuously for 10-15 seconds.
3. Reinstall the wick assembly and verify that the AeroFit™ is counting particles.
4. If the issue persists, this procedure can be repeated multiple times.



#### **Method 2: Alcohol Cleaning and Dry Mode**

If compressed air cleaning is unsuccessful, proceed as follows:

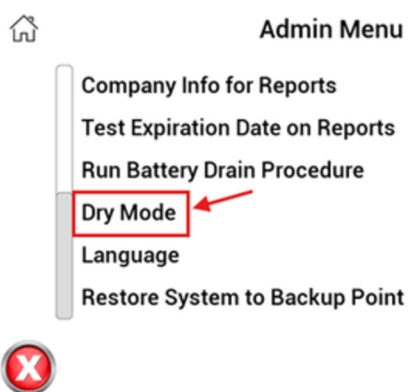
1. Power off and unplug the AeroFit™.
2. Place the device on a flat, level surface with the rear side down, ensuring the bore chamber opening is facing upward.



- Using one of the supplied 2-oz bottles of 99.9% reagent-grade alcohol, apply two drops of alcohol into the opening at the rear of the bore chamber. Use caution when turning the 2-oz bottle upside down, as alcohol will rush out of the spout. If the bottle is full, pressure may not have to be applied to the sides of the bottle for alcohol to drip out.
- Allow the device to remain in this position for at least 1 minute.
- Power on the AeroFit™.



- From the Home screen, navigate to "Settings" > "Admin Menu" > "Dry Mode".



- Ensure that the red storage cap is on the AeroFit™. Enable Dry Mode and allow the AeroFit™ to remain in this state for at least 30 minutes.
- After 30 minutes, reinstall the wick assembly and verify particle counting.

If the AeroFit™ does not resume normal particle counting after completing these steps, the device will likely require cleaning. Contact OHD to arrange service.

Issue	Potential Reason(s)	Possible Resolution(s)
A red warning icon on screen indicating "Communication error, please restart unit. If problem persists, contact OHD."	Hardware issue.	Turn the instrument off. Wait at least 5 seconds before powering back on.
		Contact OHD.
Low concentration warning/Zero or near zero readings.	The wick is not saturated enough or has not been saturated.	Place the wick in the fill capsule. Ensure the fill capsule is filled with 99.9% alcohol and is filled up to the "Alcohol Window." Leave the wick to saturate for 5 minutes.
	Environment is not suitable for testing.	<p>Turn the particle generator power up.</p> <p>Ensure that the test subject is not directly underneath any vents, ducts, etc.</p> <p>Ensure that any doors are closed.</p> <p>If the room is too large, it may be difficult to generate and maintain the necessary particle count. Relocate to a smaller room if possible.</p>
	Dual tubing is not securely connected.	Disconnect the dual tube and ensure that the quick connects "click" into place securely.
	Dual tubing is obstructed or kinked.	Ensure the hoses are free of blockages, unkinked, and connected securely to the instrument.

Symptom	Potential Reason	Action
Low concentration warning/Zero or near zero readings. (cont.)	Dual tubing is reversed on respirator.	Ensure that both lines are securely connected to the instrument. The blue line on the mask side should be hanging free and the clear line should be securely connected to the respirator probe/adapter.
	Optics have flooded.	<b>Remove the wick</b> and install the red storage cap on the instrument. From the home screen, navigate to "Settings" > "Admin Menu" > "Dry Mode." Start dry mode by pressing "Start" and then pressing the green checkmark. Leave the instrument to run for 30 minutes.
	Low-grade alcohol or contaminated wick.	If using less than 99.9% alcohol, dump the fill capsule and refill with proper grade alcohol. Otherwise, discard the wick felt inside the wick canister and replace it. Saturate the wick for three to five minutes.
	Clogged nozzle.	See "Nozzle Maintenance" section.
	Instrument requires cleaning or calibration.	Must return to OHD for servicing.
No power to instrument.	Power cord is not plugged into wall/instrument.	Ensure that both ends of the power cord are securely plugged into the outlet and the instrument.

Symptom	Potential Reason	Action
No power to instrument. (cont.)	Power transformer is not getting power.	Ensure that the green LED is lit on the transformer. If not, try a different outlet/set of outlets.  <b><u>Do NOT use an alternative transformer,</u></b> this may cause critical damage to the instrument. Contact OHD to purchase a replacement.
Fails Zero Port Check (Daily Verification)	HEPA filter is bad.	If available, try a different HEPA filter. If not, at the zero port prompt screen stop and wait 30 seconds. After 30 seconds, press the blue arrow in the bottom right to begin the zero port check. Otherwise, contact OHD for servicing.
	Wick is not secure.	Ensure that the wick is securely tightened in the bore chamber by turning it clockwise. The arrow on the front of the cap should face upwards.
	Dual tube leak or has holes.	Check that there are no holes in the dual tubing, especially at the ends of the tube where the connectors are. If there is a hole towards the end, the connector(s) may be removed. Using a pair of scissors, cut the tubing back behind the hole. Replace connector. Holes in the mid-section of the tubing will require a replacement.

Symptom	Potential Reason	Action
Fails Zero Port Check (Daily Verification) (cont.)	Ends of the dual tubing are frayed, damaged, loose.	Ensure that the ends of the tubing is tight and secure. If not, remove the connectors, trim the tube with a pair of scissors and replace connectors.
	Solenoid valve is not working.	Return instrument to OHD for service.
Fit Factor of 1 or near zero.  *Note: If AeroFit has passed it's daily verification, the issue is likely going to be with an accessory, the fit of the respirator, or the respirator itself.	Low alcohol.	Remove the wick and charge it in 99.9% reagent grade alcohol for at least 5 minutes.
	Dual tube is incorrectly connected or damaged.	Ensure that the dual tube is connected to the instrument and respirator securely. Ensure that the clear line is connected to the respirator, and the blue line is hanging freely.  Ensure that the dual tube is free of holes, punctures, rips, tears, etc.
	Respirator integrity is compromised.	Ensure that the respirator used is in good condition. Filters should be tight and connected properly. Check for any cracks in the respirator.
	Respirator is not equipped with the correct filtration media.	Ensure that the filters used are HEPA, class-99, class-100 or P3 filters. Inferior filters will negatively impact testing and should not be used.

Symptom	Potential Reason	Action
<p>Fit Factor of 1 or near zero. (cont.)</p> <p>*Note: If AeroFit has passed its daily verification, the issue is likely going to be with an accessory, the fit of the respirator, or the respirator itself.</p>	Poor fit.	Try (if available) different sized respirators. Ensure that the respirator has been donned correctly. Subjects should be clean shaven where the respirator seals to the face.
	Adapter/filters are loose.	Ensure that the OHD adapters and filters are tightly secured.
High concentration warning	Particle generation is too high.	Turn off or turn down the particle generator.
	Naturally high ambient.	In some environments, particle generation is not necessary as the natural ambient concentration is high enough. If this is the case, turn off or turn down the particle generator. Naturally high ambient environments will degrade the performance of AeroFit over long-time usage which will require maintenance more frequently.
	Poor/no ventilation.	Lack of open doors, vents, windows, etc. If there is a naturally high ambient concentration (see above) and there is little to no ventilation in the room, this may trigger the high concentration warning.

# Appendix A: Specifications

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## AeroFit™ Fit Test Machine

Size	(H) 11 x (W) 4.4 x (D) 15 inches
Weight	9 lbs
Fit Factor Range (respirators with <99% efficiency)	1-200
Fit Factor Range (respirators with >99% efficiency)	1 - >10,000
Concentration Ranges	0.01 - 100,000 particles/cm <sup>3</sup>
Particle Size Range	20 nm - >1 micron
Temperature Range	15-35 C
Sample Flow Rate	120 cm <sup>3</sup> /min
Total Aerosol Flow Rate	700 cm <sup>3</sup> /min
Power Requirements	100-240 VAC, 50/60Hz 1A Max
Alcohol Requirements	99.9% Isopropyl Alcohol Reagent Grade CAS Number: 67-63-0 Alcohol Run Time: > 8 Hours
Wick Run Time	> 8 Hours

## Appendix B: Import Personnel Template

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To import a list of names directly into the AeroFit, an Excel spreadsheet must be filled out with specific headers (see below). Fields can be empty and will be empty on the unit when imported. After populating the spreadsheet, save to a USB drive.

Insert the USB drive into the back of the AeroFit. On the Home screen, click on People/Test button. Then click the green down arrow button and the csv files will display from the USB Drive. Highlight the file and click the green checkmark button, then confirm you want to add users to the AeroFit.

	A	B	C	D	E	F	G	H
1	first name	middle	last name	id	company	note		
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

**OHP**

YOUR PROTECTION. OUR PRIORITY.