

# PORTACOUNT® RESPIRATOR FIT TESTER MODEL 8040

RESPIRATOR FIT TESTING  
YOU CAN TRUST

Quantitatively fit test all respirator face masks using  $\geq 99\%$  efficient filter media.

Eliminate the guesswork.

Accept no substitutes . . . choose the original ambient aerosol condensation nuclei counter (CNC) quantitative fit testing instrument, the PortaCount® Respirator Fit Tester.



## PortaCount Model 8040 Includes

- + Carrying case
- + AC power supply with global plug adaptors
- + Alcohol supply (sixteen 30 ml bottles of 99.5% reagent grade isopropanol - enough for ~240 hours of operation)
- + FitPro™ Ultra Software
- + Standard accessory kit (twin tubing, zero filters, spare wicks, alcohol fill capsule and cartridge, USB cable)

## FitPro Ultra Software

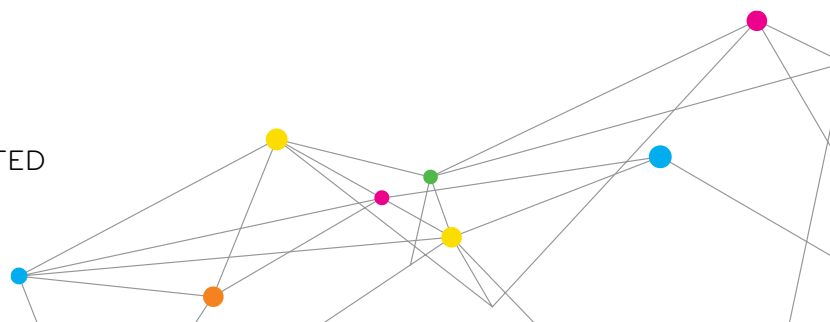
- + New FitPro Ultra fit test software improves efficiency and simplifies fit testing
- + New advanced user interface with intuitive design supporting one-step-to-a-fit test
- + Wireless WiFi communication to leverage the utility of a laptop or tablet
- + Industry first active animations guide the test subject through the fit test exercises to ensure greater compliance
- + Interactive troubleshooting guide

## Features and Benefits

- + OSHA, CSA, HSE INDG 479, and ANSI compliant for all respirators equipped with  $\geq 99\%$  efficient filters.
- + Measures fit factors greater than 10,000
- + Computes respirator fit factor using microscopic particles in ambient air
- + Automates fit testing with FitPro Ultra Software
- + Real-Time FitCheck Mode™ to train new users and troubleshoot failed fit tests
- + Mask sampling adapter kits enable fit testing in employee's personal respirators
- + Software prints fit test cards with fit test report or on ID cards



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# SPECIFICATIONS

## PORTACOUNT RESPIRATOR FIT TESTER MODEL 8040

### Fit Factor Range

1 to greater than 10,000

### Typical Fit Factor Accuracy

±10% of reading

### Respirator Facepieces that can be Fit Tested

Full-face elastomeric

Half-face elastomeric

NIOSH series-100 filtering-facepiece

NIOSH series-99 filtering-facepiece

Series FFP3 disposable respirators

### Fit Factor Measurement

Direct measurement of fit factor ( $C_{out}/C_{in}$ )\*

### Dimensions

4.83 in. x 10.5 in. x 9.46 in. (12 cm x 27 cm x 24 cm)

### Weight

Unit Only 6.1 lb. (2.7 kg)

With Standard

Accessories and Case 14.45 lb. (6.5 kg)

### Power

Autosensing 100 to 250 VAC, 50 to 60 Hz

### Flow Rate

Sample 350 cm<sup>3</sup>/min

Total 1000 cm<sup>3</sup>/min (nominal)

### Temperature Range

Operation 32 to 100° F (0 to 38° C)

Storage -40 to 122° F (-40 to 50° C)

### Working fluid

99.5% reagent grade isopropanol.

Run time per charge: 6 hr of fit testing operation at 70° F (21° C)

### Carrying Case

Dimensions (HWD) 10.0 in. x 20.5 in. x 15.5 in.  
(25.4 cm x 52.1 cm x 39.4 cm)

### Pass/Fail Setting

User-selectable: 0 to 10,000

### Factory Recalibration Interval

One year

### Warranty

Two years on workmanship and materials

### Communications

WiFi, USB-C, USB-A

### Minimum PC Hardware Requirements for FitPro Ultra Fit Test Software

Windows® 7 (32 and 64 bit), Windows 8 (32 and 64 bit), or Windows 10 (32 and 64 bit) operating system

Microsoft.Net version 4 (installation software will install Microsoft.Net if necessary) **Note** – An internet connection is required to install Microsoft.Net

≥ 1 GHz process

≥ 1280 x 800 screen resolution monitor

500 MB free space on hard drive

1 free USB port

### Minimum Tablet requirements

Windows 10 operating system

USB port (for initial set up)

### Software

FitPro Ultra Software featuring advanced user interface, animated graphics, and interactive troubleshooting guide

### Optional Accessories

Mask Sampling Adapters for select respirator models

Microsoft® Surface Pro Tablet (4 GB RAM, 128 GB of storage)

WiFi USB dongle

\*Mask leakage is measured simultaneously while test subject moves and breathes.

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To see our list of patents please visit:  
[www.tsi.com/patents](http://www.tsi.com/patents)



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