



® Knowledge Beyond Measure.

PortaCount® Respirator Fit Tester

Model 8040



Respirator Fit Testing You Can Trust.

The PortaCount® Respirator Fit Tester Model 8040 provides a consistent and objective quantitative respirator fit testing experience for all respirator face masks using $\geq 99\%$ efficient filter media. Industry-first features train staff how respirators should be worn to be most protective.

Choose PortaCount Fit Testers for respirator training and fit testing you can trust.

Features and Benefits

- OSHA, CSA, HSE INDG, ANSI/ASTM, ISO, INRS and JIS accepted for ALL Full-facepiece and Half-facepiece tight fitting elastomeric respirators and filtering facepiece respirators, using NIOSH Series -99 /-100; EN-P3 filter media
- Measures fit factors from 1 to 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 can print fit test cards with fit test report

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 Fit Test 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



Specifications

PortaCount® Respirator Fit Tester

Model 8040

Fit Factor Range

1 to greater than 10,000

Respirator Facepieces that can be Fit Tested

Full-facepiece elastomeric
Half-facepiece elastomeric
NIOSH Series-100 filtering-facepiece
NIOSH Series-99 filtering-facepiece
EN FFP3 filtering-facepiece

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 ³ /min
Total	1000 cm ³ /min (nominal)

Temperature Range

Operation	32 to 100° F (0 to 38° C)
Storage	Storage -40 to 122° F (-40 to 50° C)

Working Fluid

99.5% reagent grade isopropyl alcohol.
Run time per charge: Typical 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)
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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

PC Hardware Requirements for FitPro™ Ultra Fit Test Software

Windows® 7 (32 and 64 bit), Windows® 8 (32 and 64 bit),
Windows® 10, and Windows® 11 (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

Tablet Requirements

Windows 10 and Windows 11 operating system USB port
(for initial set up)

Software

FitPro™ Fit Test 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.

Specifications are subject to change without notice.

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To see our list of patents please visit:
www.tsi.com/patents



Knowledge Beyond Measure.

TSI Incorporated - Visit our website www.tsi.com for more information.

USA	Tel: +1 800 874 2811	India	Tel: +91 80 67877200
UK	Tel: +44 149 4 459200	China	Tel: +86 10 8219 7688
France	Tel: +33 1 41 19 21 99	Singapore	Tel: +65 6595 6388
Germany	Tel: +49 241 523030		