



OCCUPATIONAL HEALTH

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RESPIRATOR FIT TESTING

OHD Quantifit

Quantitative respirator fit testing is a practice that has been around since the late 1960s. While there have been several ways in which to perform a respirator fit test, there were never any scientific studies to prove that these methods actually worked. These technologies have simply been “accepted” because they were the only way to do quantitative fit testing. The technology seemed to make sense, and at least it was better than nothing at all. Or was it?

Things changed in 1992 when the idea of Controlled Negative Pressure (CNP) was implemented in a whole new approach to fit testing. This revolutionary way to perform a respirator fit test could be subjected to scientific scrutiny. The results? Unlike all other methods of fit testing, Controlled Negative Pressure was proven to quickly and accurately measure respirator leakage, which is the key to measuring respirator fit.

CNP technology was accepted by OSHA in 1998, and has quickly been adopted by industry to be the quickest and most accurate way to perform respirator fit testing—the gold standard in respirator fit testing.

While old technologies are sometimes hard to give up because “we’ve just always done it that way,” the OHD Quantifit offers an impressive array of advantages that can dramatically improve your respirator program. Within the first ten seconds of testing, you will know whether the respirator user has a basic fit or not. And the OSHA accepted CNP Redon protocol takes as little as two to three minutes. If other quantitative fit test instruments measured accuracies of less than 40%, why put your employees at risk?

Controlled Negative Pressure has proven to be the fastest, most accurate, and most health protective fit test system available. The accepted Redon test protocol allows you to quickly assess respirator fit based on three mask donnings. Given the Quantifit’s speed and accuracy in measuring actual respirator leakage, why would you subject your employees to something that is less than the best?



Features:

- Fit test in as little as 3 minutes
- On-board data storage
- USB keyboard and printer connection
- So easy to use that the subject can test himself
- USB thumb-drive storage and data transfer
- Increased automation during testing
- USB computer interface
- Firmware upgrades and improvements may be downloaded from the internet
- Updated easy-to-read display
- Smaller and lighter instrument
- Quieter operation
- Sleek new look with improved onboard software
- Optical knob for easier menu navigation
- World-wide universal power connection
- More audio feedback during testing

Here’s how the Quantifit works:

During a fit test, the respirator inlets are capped with test adapters and the inhalation valves are removed from the mask. With the test subject holding his or her breath for no more than ten seconds, the Quantifit then establishes and maintains a slight vacuum, or controlled negative pressure, inside the mask. Since the respirator inlets are sealed, all sources of leakage into the mask are through the face-to-facepiece seal. The volume of air drawn out of the mask by the Quantifit during this short period of time is equal to the leak rate into the mask through the face-to-facepiece seal.

It’s that simple....



Advantages of the Controlled Negative Pressure Method

Proven Technology The OHD Quantifit is a highly specialized instrument which utilizes the scientifically-proven and patented CNP (Controlled Negative Pressure) technology to directly measure respirator leakage. The OHD Quantifit is accepted by OSHA and appears in the Federal Regulations governing fit testing [29 CFR 1910.134]. The Quantifit is also included in the Canadian Standards [CSA Z94.4-2011] and UK HSE Standards [EN132-149], as well as ANSI Z88.10-2010.

Fastest Fit Testing Available With the OSHA-approved CNP REDON respirator fit test protocol, a fit test can be performed in as little as 2-3 minutes and there is no waiting period for smokers as required with other fit test methods. The REDON protocol uses CNP technology's superior speed and accuracy to help achieve the best respirator fit possible. The multiple donnings required assures that the worker knows how to don the respirator correctly with each use.

Most Health Protective Peer-reviewed scientific studies have shown that the OHD Quantifit produces much more accurate, more health protective, and more believable test results than other systems. In studies where a known calibrated respirator leak was present, the OHD Quantifit measured 98% of known calibrated leak. The aerosol-based system measured only 37% of known calibrated leak.

Easy to Use The Quantifit takes the user through the test protocol step-by-step so that there is no guess-work and very little time is needed to instruct the employee being tested. There is no instrument warm-up period to worry about and the one-minute daily calibration assures that the Quantifit is working within a strict tolerance. Ease of use means less mistakes and quicker testing.

Most Rigorous Test The use of ambient air as a standard (non-varying) gaseous challenge agent provides a more rigorous test of mask fit than does an aerosol agent. If air leaks into a respirator, there is a chance that particles, vapours, or gas contaminants may leak in. When using aerosol-based systems, the test system can only see and measure some of the particles that might enter the respirator.

Direct Measurement of Leak The Quantifit directly measures facepiece leakage. There are no specific conditions or environmental concerns when testing with the OHD Quantifit. The unit precisely measures leak rate (in cc/min) by determining the amount of air that leaks into the respirator during the fit test.

NIST Calibration The ability to calibrate the Quantifit with generally available primary calibration systems assures a higher standard of test results (NIST traceable standard).

On-board Software Not only does the on-board software allow the Quantifit to be extremely flexible, but all updates can be achieved through a flash-upgrade. Users can download software from the internet and easily upgrade the Quantifit to assure the latest and most up-to-date version.

On-board Storage The Quantifit can save records in its on-board memory. These records can later be transferred to the included FitTrack Gold software on a personal computer.

Keyboard Interface The Quantifit can use a keyboard to input data into the local memory. This allows the user to enter an employee's name and ID number, as well as the respirator information. Keyboard input is easier and quicker than touch-screen or other input methods.

USB Computer Interface The Quantifit can be connected to a computer for operation through FitTrack Gold software. This gives the user more control and advanced record keeping opportunities.

USB Memory Stick Interface While data can be transferred to a PC via the USB connection, one may also transfer data via a USB memory stick.

USB HP Printer This printer connection allows for tests to be printed directly from the Quantifit without the need for a personal computer. (Visit our website for a list of compatible HP printers).

Optical Encoder Knob The navigational knob on the Quantifit allows for fast and intuitive navigation through the menus on the instrument. This helps to achieve fast and dependable data entry.

Tilted Backlit Display The display can be adjusted for any lighting situation and is tilted for optimum viewing whether the operator is standing or sitting.

Universal Power Cord The power cord for the Quantifit will adjust to the proper voltage regardless of the country in which the testing is being performed. The end user will simply swap out the prong configuration to interface with the local settings.

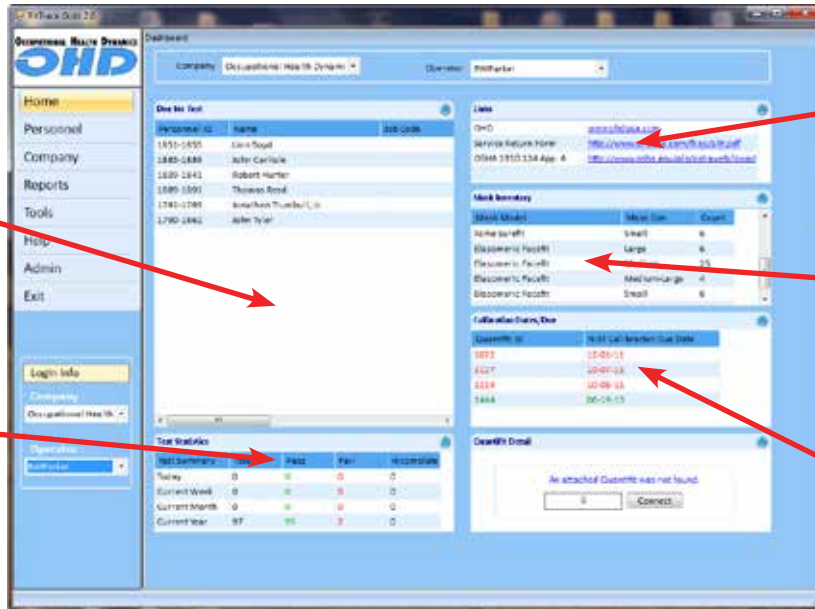
Flexible Data Management Software While the OHD Quantifit can be used as a stand-alone unit, FitTrack Gold software allows for easy testing and dependable record keeping through a personal computer. FitTrack can print individual reports or summary reports in many configurations. Data can be imported and exported to meet various needs. Users can share a common database or sync to a database on a shared server.



FitTrack Gold



FitTrack Gold offers a completely new experience for Quantifit users. The software has an updated interface that's easier to use, including many tools that will revolutionize the way data is managed. With an SQL Express database, users will experience more flexibility in data storage as well as reporting functions. Here are some of the exciting features in the new FitTrack Gold:



See who's due for a test

Test tracking at-a-glance

Convenient web links

Masks currently tested and in use

Keep track of instrument calibration dates

DASHBOARD

A new dashboard home screen displays useful information at a glance. This includes a list of people who are due to be tested, test statistics to track the number of tests performed, a mask inventory for the current year of testing, calibration due dates for your instruments, and web links that can be customized to your specific needs.

SECURITY

Security is comprehensive and flexible. User names and passwords can be assigned and the administrator can control any task within the software.

UPGRADING FIRMWARE

Instrument updates can be performed directly through the software.

REPORTING

Reports contain a header for your company information including company logo. Standard reports include a Fit Test Log which can be customized to include the columns that are more useful to the organization's needs.

SYNCHRONIZING

Easily synchronize to other databases when networked with other users.

IMPORTING DATA

Import personnel files from an Excel spreadsheet. Import Quantifit test data from a USB memory stick or directly from the Quantifit itself.

EXPORTING

All reports and data can be exported to a PDF document or an Excel file with a click of a button.

SEARCHING

Powerful and customizable search options are helpful especially for large databases.

FLEXIBLE RECORD KEEPING

Add individual notes to each test save incomplete or cancelled tests with an explanation of the reason for the failure. The user can make an individual or a complete company "inactive" rather than deleting them from the database.

FitTrack Gold provides comprehensive data management while continuing to support stand-alone operation of the Quantifit. Perform tests, track employees, run reports, synchronize data — all within one easy-to-use software application. Call us today for details!



Adapter Fittings

3M Respirators	Kit	Product #
5000 Series (Half) Use 6000 Series as surrogate mask	N/A	N/A
6000 Series (Half) Twist-Lock Cartridges	15	9513-0129
7500 Series (Half) Twist-Lock Cartridges	15	9513-0129
Airstream Systems (Full) Single Screw-In Connection	1	9513-0130
Breathe Easy 3, 7 & 8 (Full) Single Screw-In Connection	1	9513-0130
Easi-Air 1/2 Face (Half) Drop-in Cartridge Style	2	9513-0106
Easi-Air Full Face 7800S (Full) Twist-Lock Cartridges	15	9513-0129
FR-M40 (Full) Single Screw-In Connection	1	9513-0130
Powerflow Systems (Full) Single Screw-In Connection	1	9513-0130
Racal Prime-Air (Full) Single Screw-In Connection	1	9513-0130
SCABAG (Full) Use Easi-Air as surrogate mask	N/A	N/A
Select-Air 1 & 2 (Full) Single Screw-In Connection	1	9513-0130
AO Safety		
5 Star/Flexi-Star (Half) Dual Cartridge Screw-In	3	9513-0107
8000 Series (8300/8400) (Both) Twist Lock Connection	A-30	AR-51174
EZ Drop (Both) Twist Lock Connection	A-30	AR-51174
Omni Star (Full) Dual Cartridge Screw-In	3	9513-0107
Omni Star Full-PAPR, Airline (Full) Single Screw-In Connection	1	9513-0130
Quicklatch (Half) Twist Lock Connection Quickfit	A-30	AR-51174
Quicklatch Pro (Full) Dual Screw-in Connection	3	9513-0107
Avon Protection		
FM12, CT12, SF10 (Full) Single Screw-In Connection	1	9513-0130
Bullard/Sabre		
Panaseal SCBA (Need Sabre part 2003468**) (Full)	1*	9513-0130
Bacou/Dalloz/Willson		
1200 Half Face (Half) Dual Screw-in Connection	9	9513-0113
1600/1700 (Full) Dual Screw-in Connection	9	9513-0113
6000 Series FF (Use 6000 Twist Lock as Surrogate) (Full) Single Screw-In Connection	N/A	N/A

6000/8000 Series w/dual cartridge T Series (Half) Dual Cartridge Quarter-turn	11	9513-0115
8101 Series (Full) Dual Screw-in Connection	9	9513-0113
8600 Series w/dual screw-in (Full) Dual Cartridge Screw-In	9	9513-0113
8600 Series with 40mm SCBA Airline (Full) Single Screw-In Connection	1	9513-0130
F600 (Half) Dual Screw-in Connection	9	9513-0113
Freedom 2000 (Lab Safety mask) (Both) Dual Twist-Lock Connection	10 ¹	9513-0114
MX/PF GT Series (Half) Dual Screw-in Connection	9	9513-0113

Draeger

All SCBA with Screw-in Demand Valve (Full) Single Screw-In Connection	1	9513-0130
All SCBA with Snap-in Demand Valve (Full) Single Snap-In Connection (Need Draeger part 4055251)	1*	9513-0130
BG4 Gas Mask (Full) Single Snap-In Connection	31	9513-0310
Combitox Nova RD 91 (Full) Single Cartridge	25 ¹	9513-0208
Combitox Nova Single Cartridge (Half) Single Screw-In Connection	1	9513-0130
Explorer/X-Plore 5500 (Both) Dual Twist- Lock	30 ¹	9513-0300

Glendale/Bilson

Glendale DR6100 (Full) Single Screw-In Connection	1	9513-0130
Glendale MX/PF F950 (Half) Dual Screw-in Connection	9	9513-0113
Glenaire MX/PF/9500 (Both) Dual Caplock Screw On	4	9513-0108
Glenaire GR-5000 (Must Use as a Surrogate Setup) (Full) Permanently Connected Hose	18	9513-0136
F710 (Full) Dual Screw-in Connection	9	9513-0113

ISI

ARAP Muse use Viking as Surrogate (Full) Use Viking as Surrogate	N/A	N/A
Frontier (Full) Single Screw-In Demand Valve	1	9513-0130
Magnum/Magnum Plus (Need ISI Part 08925500**) (Full) Snap-In Demand Valve	1*	9513-0130
Ranger SCBA (Full) Single Screw-In Connection	1	9513-0130
Viking Fit Test Mask (surrogate w/ISI 189002**) (Full) Fit Test Mask	1*	9513-0130
Viking Non-Fit Test Mask (Need ISI part 189002 & 171028**) (Full) N/A	1*	9513-0130

Interspiro

Spiromatic SCBA (Older Style) (Need Interspiro Part 336-890-378**) (Full)	1*	9513-0130
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Spirolite SCBA (Older Style) (Need Interspiro Part 336-890-378**) (Full)	1*	9513-0130
Interspiro "S" (New Style) (Need Interspiro Part 95-991-01**) (Full) Snap-In Demand Valve	1*	9513-0130
Kemira		
Sari 019774 (Full) Single Screw-In Connection	1	9513-0130
Silner (Half) Dual Snap-In Connection	21	9513-0187
Lab Safety		
All (Both) Dual Twist-Lock Connection	10'	9513-0114
Life Air		
All (Full) Single Female Threaded Connection	1	9513-0130
MSA		
All Belt Mounted Regulators, if mask connection is removed (Full) Single Screw-In	1	9513-0130
Advantage 100/200/200LS (Half) Dual Twist-Lock Connection	27	9513-0210
Advantage 1000/2000/3000 (Full) Dual Twist-Lock Connection	27	9513-0210
Advantage 4000 RD40 40mm threaded connection (Full) Single Threaded Connection	1	9513-0130
Advantage 4000 Push-to-Connect (Need MSA Part 10065330) (Full) Push-To-Connect Connection	1*	9513-0130
Advantage 4000 Twin Cartridge (Full) Dual Twist-Lock Connection	27	9513-0210
Comfo Classic (Full) Dual Screw-in Connection	5	9513-0109
Custom 4500 II (Both) Single Screw-In Female Coupling	1	9513-0130
M95 Gas Mask (Full) Single Female Threaded Connection	1	9513-0130
MCU-2A (Full) Single Female Threaded Connection	1	9513-0130
Mellinnium 3000 (Half) Dual Screw-in Connection	5	9513-0109
Millennium (Full) Single Screw-In Female Coupling	1	9513-0130
Phalanx Alpha (May use Phalanx Beta as Surroage Fit) (Full) Proprietary Filter Mount on Both Sides	34	9513-0340
Phalanx Beta (Full) Single Female Threaded Connection	1	9513-0130
Ultra Elite Airhawk (Need MSA Part 10040052) (Full) Single Push-to-Connect	27*	9513-0210
Ultra Elite Firehawk (Need MSA Part 10029823) (Full) Single Quarter-Turn-to-Connect	27*	9513-0210
Ultra Elite Firehawk (Need MSA Part 10032511) (Full) Single Slide-to-Connect	27*	9513-0210

Ultra Elite Firehawk (Need MSA Part 10040052) (Full) Single Push-to-Connect	27*	9513-0210
Ultra Elite Firehawk M-7 (Air Force) (Full) Tested with Hose Assembly	1	9513-0130
Ultra Elite w/40mm Connections (Full) Single Threaded Connection	1	9513-0130
Ultra Elite MMR (Need MSA Part 817446) (Full) Single Push-In Connection	1*	9513-0130
Ultra Twin (Full) Dual Screw-in Connection	5	9513-0109
Ultralite II (Full) Single Screw-In Female Coupling	1	9513-0130
UltraView (Full) Single Screw-In Female Coupling	1	9513-0130
UltraView MMR (Need MSA Part 817446) (Full) Single Push-In Connection	1*	9513-0130
Workmask II (Both) Single Screw-In Female Coupling	1	9513-0130
Moldex		
8000 Series (Half) Dual Push-In Filters	22	9513-0188
North		
7600/5400/5500 (Full) Dual Cartridge Screw-In	6	9513-0110
7700 (Half) Dual Cartridge Screw-In	6	9513-0110
CFR-1 (N95 & P95 Series - use 5500 Series as Surrogate) (Half) Use 5500 as Surrogate	N/A	N/A
SCBA (Full) Single Screw-In Connection	1	9513-0130
SCBA (Newer 8000 Series) (Use 7600 as Surrogate) (Full) Use 7600 as Surrogate	N/A	N/A
SCBA (Snap-in Older Style) (Full) Single Snap-In Connection (Need part 4055251)	1*	9513-0130
RSI		
Lifeair STD & XL (Both) Single Female Coupling Connection	1	9513-0130
Allegro (Full) Dual Male Threaded Connection	9	9513-0113
Scott		
65 Series (Full) Dual Male Threaded Connection	8	9513-0112
66 Dual (Half) Dual Male Threaded Connection	8	9513-0112
AV2000/AV3000 (Need Scott Part 805059-01) (Full) Quarter Turn Lock Connection	1*	9513-0130
Promask 40 (Full) Single Female Threaded Connection	1	9513-0130
Scott-O-Vista (Need Scott Part 805059-01) (Full) Quarter Turn Lock Connection	1*	9513-0130
Sigma (need Scott Part 2003468) (Full)	1*	9513-0130



Xcel (Both) Dual Twist-Lock Connection	SC-28	SC-805816
Sundstrom		
SR100, SR 90-2 (Half) Large Single Piece Connection	20 ¹	9513-0186
SR200 (Full) Large Single Piece Connection	20 ¹	9513-0186
SE400 (Both) Single Screw-in Connection	1	9513-0130
Survivair		
2000 Series (Half) Dual Male Threaded Connection	9	9513-0113
4000 Series (Full) Dual Male Threaded Connection	9	9513-0113
Blue-1 (Mark2 & XL30) (Both) Dual Male Threaded Connection	9	9513-0113
Opti-Fit/Survivair Max (S-Series or threaded connection) (Full) Dual Male Threaded Connection	9	9513-0113
Opti-Fit CBRN (Full) Single 40mm Connection	1	9513-0130
Opti-Fit/Survivair Max w/bayonett (T-Series) (Both) Dual Twist Lock Connection	11	9513-0115

Panther & Sigma (Need Survivair Part 960150) (Full) Snap-In Demand Valve	1*	9513-0130
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Twenty-Twenty (Need Survivair Part 960150) (Full) Snap-In Demand Valve	1*	9513-0130
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Value Air Plus (Half) Dual Male Threaded Connection	9	9513-0113
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US Safety

100/200/300 (Half) Dual Quarter-turn Lock Connection	10 ¹	9513-0114
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151/153 (Full) Dual Quarter-turn Lock Connection	10 ¹	9513-0114
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US Military

MTU-2/P (40mm-allows wearer to do user seal check) (Full) Single Male Threaded Connection	24	9513-0207
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* Additional manufacturer part needed as listed with mask model.

** Part must be purchased from the respirator manufacturer.

¹ Adapter is special order and may require extra lead time.

CONCEPT CONTROLS CALIBRATION LAB

WHAT IS CALIBRATION?

Calibration is a comparison of measuring equipment against a standard instrument of higher accuracy to detect, correlate, adjust, rectify and document the accuracy of the instrument being compared.

HOW DO I KNOW WHEN I NEED TO CALIBRATE MY INSTRUMENT?

- Your monitor may indicate that it needs calibrating
- Refer to the user manual of the instrument for manufacturer recommendations
- Check the calibration due date sticker on the instrument or calibration certificate provided
- Contact one of our certified service technicians for assistance

WHY IS CALIBRATING MY INSTRUMENT IMPORTANT?

- LIMITING LIABILITY:** Instruments are calibrated to an NIST traceable standard ensuring companies due diligence in

case of litigation issues

- OSHA COMPLIANCE:** Calibrating an instrument annually may exemplify an employer's desire to follow OSHA recommendations concerning provincial or federal standards
- UPGRADES:** During the calibration procedure each unit is upgraded with the latest firmware versions and modifications set out by manufacturers
- EXTEND LIFE OF YOUR INSTRUMENT:** Maintaining your instruments regularly will prolong the life of your instrument

WHAT WORK IS PERFORMED WHEN I SEND MY INSTRUMENT IN?

- The instrument is calibrated to factory standards
- We ensure all visual and audible alarms are functioning
- The firmware or software version of the instrument is updated (if required)
- We completely evaluate all components and consumable products associated with the instrument and provide a service repair estimate prior to work being completed
- We provide service work orders and calibration certificates stating the work provided



Posi 3 USB

The PosiChek family of SCBA test equipment has been the industry standard for thousands of fire departments, refineries, chemical plants and nuclear power stations worldwide since it was first introduced in 1988. The new Posi 3 USB incorporates a number of hardware and software improvements suggested by our customers to keep pace with increasingly rigorous testing criteria.

NFPA 1852 mandates that all compliant SCBA be tested on a calibrated breathing machine before being put into service, and at least once per year thereafter. Posi 3 USB meets the same stringent NFPA standards as PosiChek3.



Posi 3 USB Performs Full Readiness Testing

- Facepiece leak check
- Exhalation check valve opening pressure
- Static facepiece pressure
- Bypass flow rate
- Pressure gauge accuracy
- Low pressure alarm activation
- First stage regulator performance
- Breathing resistance at standard (40 LPM)
- Breathing resistance at maximum (100 LPM)

Minimum PC System Requirements

- Windows XP or Vista 32 (Please call to find out which versions are currently available for 64-bit)
- Pentium 4 processor 2.0 GHz or higher
- 512 MB Ram
- 50 Mb of available space on hard drive
- USB 2.0 port and CD-ROM Drive

PosiChek3

PosiChek3 computerized SCBA test bench has been the industry standard for thousands of fire departments, refineries, chemical plants and nuclear power stations worldwide since it was first introduced in 1988. A number of upgrades have been incorporated to keep pace with increasingly rigorous testing criteria.



NFPA 1852 mandates that all compliant SCBA be tested on a calibrated breathing machine before being put into service, and at least once per year thereafter. PosiChek3 meets these stringent NFPA standards. It can fully evaluate the operational readiness of an SCBA in less than 2 minutes and consumes less than 1% of its air supply.

All PosiChek3 units are equipped with an Enhanced Precision High Pressure Transducer that provides more precise measurement of pressure within the high-pressure manifold. Upgrades are also available. In addition, a new Sound Detection System (SDS) automates the primary audible alarm test, eliminating human error. As always, PosiChek3 offers a full range of test and data storage options, making record keeping a breeze.

Features:

- Computerized dynamic SCBA test bench
- Tests the performance of any brand of SCBA
- Automatic pass/fail
- Includes 32-Bit SCBA test software
- Low pressure (2216 psig) and high pressure (4500 psig)
- Custom software available directly from virtually all SCBA manufacturers
- 32-Bit Software will operate on Windows 98, ME, NT (version 4.0 SP5 or higher), 2000, XP and Vista



OHD OCCUPATIONAL HEALTH

KoKo PFT Spirometer

The OHD KoKo Spirometer is powered by the most comprehensive spirometry software available. Its customizable design allows the user to easily adapt the performance to the level of sophistication required.

OHD KoKo PFT software blends very sophisticated features with a logical and friendly user interface. Populated with numerous predicted equation sets and a choice of three interpretive algorithms, users can be confident in their diagnostic decisions based upon spirometry results.

Independently validated to meet ATS/ERS 2005 recommendations for both ambient and BTPS conditioned air puts KoKo ahead of the competition for accuracy and precision. OHD KoKo PFT software has also been enhanced to comply with all aspects of the ATS/ERS 2005 statement on spirometry!



Features:

- Independently validated to meet ATS/ERS 2005 recommendations both for ambient and BTPS conditioned air
- OHD/KoKo PFT software has been enhanced to comply with all aspects of the ATS/ERS 2005 statement on spirometry
- BRASS "Fleisch-Type" pneumotach
- 22 predicted sets
- Side-by-side realtime Flow/Volume Loop and Volume/Time
- Multiple incentive graphics
- High precision multiflow calibration syringe
- Trend analysis of employee/patient results
- Fully customizable report format
- Windows based and may be used in a network environment

Optional Accessories:

- Pulmonary function filters
- Multi-flow calibration syringe

Legend Spirometer

The OHD KoKo LEGEND, designed with an easy to operate colour touch-screen, walks both physician and patient through standard testing procedures. Our realistic animated incentive graphic allows the FVC test to be performed with a real-time on-screen display. Test results can easily be transferred to the KoKo PFT Spirometry Software via the standard USB cable.



Features:

- Intuitive touch-screen operation
- High-Resolution Incentive Display
- Stores over 1000 patient test records on each compact flash memory card
- Brilliant colour touch display
- Built-in printer as well as direct connection for 8 1/2" x 11" printing
- Unique flexible orifice pneumotach
- Simple USB to KoKo Spirometry Software download
- Uses industry standard KoKo filters
- Fully rechargeable battery operation
- Optional modem and network connectivity



Intoxilyzer 240

The next generation breath alcohol instrument for workplace testing applications.

Bluetooth® Wireless Connectivity

- An industry first!
- Automatically connects to printer and keyboard (240D)
- Up to 30-foot range from testing unit

Auto barometric pressure calculation

- Another industry first!
- Automatically adjusts dry gas standard value during calibration check and adjustment procedures
- No more calculating adjusted target values!

Three DOT testing types

- Screening
- Confirmatory with Air Blank
- Combination - automatically counts down 15-minute wait between positive Screening test and Confirmation test

Use in any testing environment

- DOT regulated, non-regulated, NRC, DOE and other testing mode protocols are built in
- User configurable for complete testing control and options
- Use with or without keyboard function and data management capability
- FLASH programmable memory for easy future software upgrades



i500 Vision Screener

Designed to meet the unique needs of the 21st century, the i500 introduces several new features making it more user-friendly and the clear choice for consistent and dependable performance.



Features:

- Modern, contoured design in contemporary colours
- Unique Comfort™ height adjustment feature accommodates adults and children of varying heights
- Natural line-of-sight testing enables a progressive lens wearer to adjust the line of sight, so that the optimum portion of the lens is being used to view the test
- Peripheral vision testing in the horizontal visual field at 85o, 70o, 55o and nasal 45o for each eye
- Soft foam headrest to provide proper head positioning and comfortable support
- Built-in sensor to recognize correct head positioning
- Touch-screen panel eliminates manual scoring, displays test information and instructions for a patient, compares test results to preset job standards, and generates a final report
- Built-in test data storage capability; data can be imported from the panel and printed using your PC
- Integrated foldable handle and convenient back-mounted membrane control panel for ease-of-transport
- Meets the ANSI and ISO standards for illumination using a true white light source to give years of extended service; light module has a warranty of three (3) years
- Night vision screening feature
- Variety of tests to screen far visual acuity, muscle balance (horizontal and medical phoria), depth perception, colour perception, and binocular vision

Standard Accessories:

- 8 Test Slides made from high grade photographic film sealed between optical-quality glass
- Training Manual (technical support available via the internet)
- 10 Lens Cleaning Wipes
- Package of 3 Fog Eliminator Cloths
- Accessory Case for storing lens cleaning wipes, fog eliminator cloths, and lenses
- Dust Cover for instrument storage

Optional Accessories:

- Carrying Case – soft-sided, ergonomically designed with wheels, for easy transport of vision screener
- Intermediate Lenses – 19, 22, 26, 32 and 40 inches (50, 57, 67, 80 and 100 cm)
- Plus Lenses with values of +1.00, +1.50, +1.75 and +2.25 are available for testing children's vision



HEARING CONSERVATION

Sound Booths

OHD offers a wide range of standard and custom screening booths for hearing conservation and mobile testing vehicles. The booths, shipped preassembled or as components for on-site assembly, are offered with a range of acoustical performance levels, variations in floor plans, and numerous options for industrial, military, educational, governmental and medical applications. Screening booths are available in standard floor plans or can be custom designed to meet the most exacting requirements.

Features:

- Standard Features:
 - Medical jack panel
 - Acoustical floor
 - Carpeting with cove base trim
 - Acoustically engineered, roof-integrated ventilation system
- Options:
 - Padded stools
 - Vibration isolation systems



Standard Models:

- **RE-120 / RE-121 Single Wall Screening Booth with 2" panels**
Shipped preassembled with floor-mounted casters which allow for quick set up and easy movement.
- **RE-130 Single Wall Screening Booth with 3" panels**
Provides additional attenuation for testing in areas with inconsistent ambient conditions.
- **RE-140 / 141 Single Wall Screening Booth with 4" panels**
Ideal when ambient conditions require increased attenuation or in clinical testing applications.
- **RE-60 Mini Modular Screening Booth with 2" panels**
Can be assembled and disassembled on site for industrial hearing screening applications and does not require a special vehicle for transporting.
- **Single and Double Wall Group Test Booths**
Designed to test four to ten personnel and can be customized to fit your mobile applications.
- **The Space Saving Triangular Delta Exam Booth**
Fits in the corner of the office, providing dependable acoustic performance while retaining efficient work space.
- **The MC Multi-Configurable Exam Booths**
Interchangeable for on-site configuration, layout-flexibility and the freedom to reconfigure if the rooms are later disassembled and relocated.

E-A-Rfit Validation Systems

E-A-Rfit Validation Systems identify to health and safety professionals how well hearing protectors fit and perform for the individuals wearing them. There is no guesswork using NRRs and deratings so a corporation can know and document the level of protection they are providing their workers.

Like respiratory fit testing, which indicates that maximum protection can only be obtained if the ideal fit is achieved, the E-A-Rfit system assists in achieving optimal fit through hearing protector selection and employee training. In less than 10 seconds per ear, the system generates a personal attenuation rating (PAR) that indicates a worker's noise reduction levels for a given fitting and hearing protector. Compare ratings across hearing protectors and fittings to determine best fit.

Researchers at E-A-RCal Laboratory developed proprietary algorithms to analyze sound pressure inside ear canals. This in-the-ear testing procedure differs from many other systems on the market by providing quantitative data that does not rely on subject response. Fit, train, and motivate every worker using their Personal Attenuation Rating (PAR).



Product #	Product Description	Qty
393-1000	E-A-Rfit™ Validation Kit	1
Probed Test Plugs		
393-2000-50	EARfit E-A-Rsoft™ Yellow Neons Test Plugs	50
393-2001-50	EARfit UltraFit™ Test Plugs	50
393-2002-50	EARfit Push-Ins™ Test Plugs	50
393-2003-50	EARfit Classic™ Test Plugs	50
393-2004-50	EARfit E-A-Rsoft™ FX™ Test Plugs	50
393-2005-50	EARfit E-Z-fit™ Test Plugs	50
393-2006-50	EARfit TaperFit2™ Test Plugs	50
393-2007-50	EARfit Classic™ Small Test Plugs	50
393-2008-50	EARfit Express™ Test Plugs	50
393-2009-50	EARfit Classic™ Plus Test Plugs	50
393-2010-50	EARfit 3M™ 1100 Test Plugs	50



AUDIOMETERS

Smart Tone Audiometer

The Smart Tone is a new type of audiometer. It uses the latest technology to deliver quick and accurate audiograms via an extremely easy-to use touchscreen with an intuitive icon interface, and takes the place of old audiometers with small displays and function keys that take months of use to memorize. Included are all the features you'd expect: automatic testing, storage, printing, transfer, and a built-in talkover microphone.

Features:

• **Easy to Use**

- Easy icon interface
- Simple to save and to print
- Easy data storage and transfer
- Built-in talk-over microphone with volume control and automatic pause
- Connects to PC via USB



• **Accurate and Repeatable Testing**

- Automatic printing and saving, with reminder for unsaved audiograms
- Validity Check Feature (checks agreement of 1kHz threshold)
- Detects wide range of testing errors
- Mark for Retest Feature reduces manual testing
- Optional 8kHz testing in sequence
- Visual and audible end-of-test and error alarms

• **All the Features You Need**

- Automatic and Manual Pure-Tone Audiogram
- Screen brightness adjustment
- Auto-ranging medical-grade power supply (EN60601-1 approval)
- Storage for 300 audiograms

• **Versatile by Design**

- Connects to most occupational hearing conservation databases

• **Built to Last**

- Plastic outer case, with inner metal frame for rugged durability
- Long-life moisture-resistant patient response switch

• **Supplied Accessories**

- 500117 TDH39 Headset
- 250273 Patient response switch
- 250620 Medical-grade power supply
- 500328 CD with user manual (PDF format) and Windows drivers
- 100058 Calibration Certificate

• **Optional Accessories**

- 500339 Thermal printer
- 250627 Thermal paper
- 300382-01 Printer cable, 6 ft
- 500336 Cable kit: 3 patch cables (6 ft), USB cable (2M)

D-Check Bio-Acoustic Simulator

The D-Check Bio-Acoustic Simulator performs dependable daily calibration checks of the Smart Tone Automatic Audiometer, and can be used for OSHA, MSHA, or DOT hearing programs.

Because the D-Check is powered by the SMART TONE audiometer, there is no need to worry about battery life. This advanced design simplifies the daily check and offers greater reliability and repeatability.

Features:

- Quick and accurate daily calibration check
- Uses no batteries—power supplied by audiometer
- Colour-coded ear cups reduce confusion and errors
- Table-top or test booth wall-mount

Supplied Accessories:

- Patch cable
- Wall mounting bracket



Bio-Acoustic Simulator Kit

The Bio-Acoustic Simulator BA-202 offers customers a flexible and simple solution for daily audiometer verification. This reliable device saves time and money by eliminating the need for a test subject to help perform a daily biological check of the audiometer.

Features:

- Performs quick, easy audiometer testing to help ensure accurate patient assessments
- Available in specialized versions designed to meet specific OSHA or ANSI requirements
- No need to use a human test subject to perform daily biological checks
- Powered by battery or optional power adapter, dependent on application
- Can be used as a portable tabletop unit or permanent wall-mount assembly
- Compatible with manual, automatic and microprocessor audiometers for biological testing of earphones

