# spiro**home**® | Personal

# Lung Function Tests at Home

Clinical Accuracy | Complience with ATS/ERS 2019 | Hassle-free Application

red**dot** winner 2020

GERMAN
DESIGN
AWARD
**GOLD**
**2021**

CORE77
DESIGN
AWARDS
2020 RUNNER UP

**GOOD**
**DESIGN**
**AWARDS**
**2020**

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# Conduct Your Pulmonary Function Test at Home

SpiroHome® Personal is a spirometer developed to measure lung function in **asthma, COPD, cystic fibrosis, idiopathic pulmonary fibrosis, post-lung transplant and post-COVID-19 patients.**

With its **ultrasonic measurement technology,** it allows you to perform your tests accurately at home with clinical precision.

Medical device CE certified SpiroHome Personal is a reliable and high-precision next-generation spirometer designed for home care and personal health monitoring.

## Cutting-Edge Technology

SpiroHome® Personal ensures pulmonary function tests are carried out accurately and reliably in the home environment by using ultrasonic measurement technology.

- Ultrasonic Flow Measurement
- No Routine Re-Calibration Required
- ATS & ERS 2019 Compliant



## International Award-Winning Design

SpiroHome® Personal users have instant access to their lung function values and can share their results with their physician and discuss the efficacy of their treatment process.

- Intuitive User Interface
- Connects Wirelessly via Bluetooth®
- Standard AAA Batteries

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# SpiroWay® Reusable: Personal, Reusable Mouthpiece

The SpiroWay Reusable mouthpiece offers an economically sustainable option thanks to its ability to be cleaned and reused.

Its packaging can be used easily by simply tearing along the perforated line. It makes personal hygiene control possible for up to **3 months** after it has been opened.

The SpiroWay® Reusable is manufactured with recyclable medical-grade plastic.

## Individually Packed and Hygienic

Each mouthpiece is sealed in a clean environment to be stored and delivered hygienically to its users.

Hygienic Packaging

No Special Storage Conditions Needed

Durable Design with No Moving Parts

## Wash with Soapy Water, Rinse, Dry and Re-Use!

SpiroWay® Reusable mouthpiece can be washed easily with soapy water and rinsed. This way, the mouthpiece can be used for 3 months without the need for replacement.

Dedicated to One User

Reusable up to 3 Months

Compatible with SpiroHome® Personal

# SpiroHome® Mobile Application

The SpiroHome® Mobile App is an intuitive and interactive user interface compliant with both iOS and Android. SpiroHome® mobil application, with its ease of use and superior features, allows users to perform their pulmonary function tests in a quick and accurate manner. Results can easily be shared with physicians.



SpiroHome®
Download Now

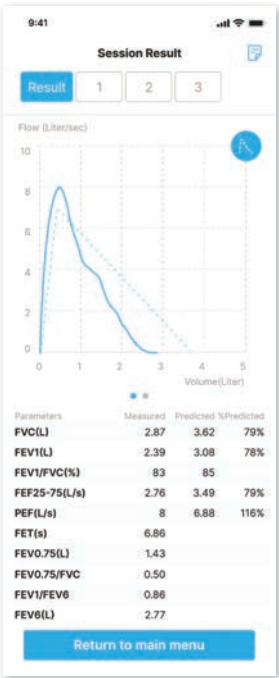# User Friendly Mobile Application

SpiroHome® app provides an easy usage experience by showing the user what to do step by step.

It accurately guides the user from the installation of the device to the testing itself and reporting of the tests. This provides clinically valid test results.



Animated Guides for Easy Testing

Trend Tracking

GDPR-Compliant

| Parameters | Measured | Predicted | %Predicted |
|---|---|---|---|
| FVC(L) | 2.87 | 3.62 | 79% |
| FEV1(L) | 2.39 | 3.08 | 78% |
| FEV1/FVC(%) | 83 | 85 | |
| FEF25-75(L/s) | 2.76 | 3.49 | 79% |
| PEF(L/s) | 8 | 6.88 | 116% |
| FET(s) | 6.86 | | |
| FEV0.75(L) | 1.43 | | |
| FEV0.75/FVC | 0.50 | | |
| FEV1/FEV6 | 0.86 | | |
| FEV6(L) | 2.77 | | |

# Virtual Spirometry & Simultaneously Coaching

Keeping a record of the pulmonary function tests performed correctly thanks to the mobile app plays an important role in the follow-up of lung health. Thanks to the SpiroHome Application, detailed results are shared with the physician and patients are monitored remotely.

SpiroHome® users integrated with SpiroCloud® can make video calls with their physicians. This way, the user can perform online and simultaneous tests under the control of a physician.

Error Code Detection

Session Grading

Real Time Feedback

| | |
|---|---|
| **Medical Device Class** | Class IIA |
| **Sensor Technology** | Ultrasonic Flow Measurement |
| **Flow Range** | 0-14 L/s |
| **Maximum Volume Measured** | 10 L |
| **Volume Accuracy** | 2.00 % or 50 mL, whichever is greater |
| **Dynamic Resistance at 14 L/s** | 86 Pa*s/L |
| **Quality / Medical Devices / Electrical Safety Standard** | ISO 13485, ISO 26782,EN ISO 23747:2009  ISO 10993-1, ISO 14971, ISO 15223- 1, EN 60601-1, EN 60601-1-2, EN 60601-1-6, EN 60601-1-11, MDD 93/42/EEC |
| **Graphs** | Flow / Volume & Volume / Time |
| **Parameters** | FEV1(L), FVC(L), PEF(L/s), FEV1/FVC(%), FEF25-75(L/s), FEV0.75(L), FEV0.75/FVC(%), FEV1/FEV6(%), FET(s), BEV(L), FEV6(L) |
| **Power Supply** | 2 x 1.5V AAA Batteries |
| **Dimensions** | 110.00 x 40 x 63 mm |
| **Weight (with batteries)** | 104 gr |
| **Wireless Connection** | Bluetooth® 4.2 and up |
| **Use Environment** | Home |
| **Mouthpiece** | SpiroWay® Reusable Mouthpiece |
| **Predicted Values** | Quanjer 2012 (GLI) |
| **Interface Device** | iOS Phones, Android Phones |
| **Calibration** | No Routine Re-calibration Required |
| **Data Storage** | Cloud Database / Unlimited Test Records |
| **ATS Error Codes** | Hesitation, Plateau, Cough, Early End, Late Peak Flow |
| **SDK / API Integration** | Yes |
| **Accessories** | SpiroWay Reusable Mouthpiece 4-pack (REF: 03000) SpiroHome Pouch (REF: 01509) SpiroHome Personal Cap (REF: 01104) |

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