



zu beziehen bei  
sold by  
[www.conatex.com](http://www.conatex.com)



## 1. Important information - read prior to start-up

You have acquired a valuable RIESTER product manufactured in compliance with Directive 93/42/EEC for medical products and subject to continuous stringent quality control.

Should you have any queries, please contact the Company or your RIESTER Agent who will be pleased to assist you. For addresses see last page of these Operating Instructions. The address of your authorised RIESTER Agent will be supplied to you on request.

Please also note that correct and safe operation of products will only be guaranteed when RIESTER products and accessories are used throughout.



Significance of symbol on scales:  
Caution, observe provided information

## 2. Purpose

The "Spirotest" is a newly developed unit allowing lung capacity to be measured without the use of water, affording a number of advantages over conventional, commercially available spirometers and thus greatly simplifying application. The unit is very handy and has a wide measuring range (1000 to 7000 cm<sup>3</sup>). It is designed for use in tests at sporting events and in the field of preventive medicine and can also be used for monitoring patients' own lung capacity.

## 3. Components (see figure)

- 3.1. Spirometer
- 3.2. Dial
- 3.3. Nozzle
- 3.4. Mouthpiece
- 3.5. Ring

## 4. Start-up and operation

- 4.1. Connect end of the mouthpiece (3.4.) to nozzle (3.3.).
- 4.2. Hold spirometer in one hand and check that the needle is set to "0".
- 4.3. If the needle is not set to "0" correct by rotating the upper outer ring (3.5.) in clockwise or counterclockwise direction.
- 4.4. Breathe in deeply and sit up straight. When your lungs are full, insert mouthpiece (3.4.) between your lips. Then breathe out continuously (within 4 - 5 seconds). This is very important to achieve precise results
- 4.5. When you have exhaled completely, read precise value (3.2).
- 4.6. Repeat this procedure 3 times. The maximum value of 3 measurements corresponds to your lung capacity.

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## **Precautions!**

- During the test, hold "Spirotest" in horizontal position. (If the unit is not held steady, the needle cannot rotate uniformly and measured results will not be correct).
- When using the unit, the small holes at the side of the upper section must not be covered with your hand.
- The "Spirotest" is a precision instrument similar to a clock, and must be handled with care.
- Only your doctor is in a position to analyse the values exactly.

## **5. Cleaning**

### **Cleaning and/or disinfecting**

The external surfaces of the spirometer can be cleaned with a moist cloth and can be disinfected with the following disinfecting agents: aldehyde, (formaldehyde, glutaraldehyde, aldehyde separators) or tensides.

All instrument components with the exception of glass components, may be disinfected with alcohol.

When using any of these substances, the instructions supplied by the manufacturer must be observed.

### **Caution!**

**If the unit is used regularly, water droplets and saliva will condense on the inside of the housing, impairing precision. After every 10 measurements remove the lower section and clean it with a cloth.**

### **Disinfection**

According to the ruling teaching (Tübingen Medical Products Test Centre), sterilisation is only specified for surgery.

## **6. Spare parts**

Item No. 11230    Package of 50 pcs. plastic mouthpieces

Item No. 11232    Package of 1000 pcs. carton mouthpieces

## **7. Maintenance**

These instruments and their accessories do not require any specific maintenance.

Should an instrument have to be examined for any specific reason whatsoever, please return it to the Company or an authorised RIESTER dealer in your area. Addresses to be supplied on request.

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