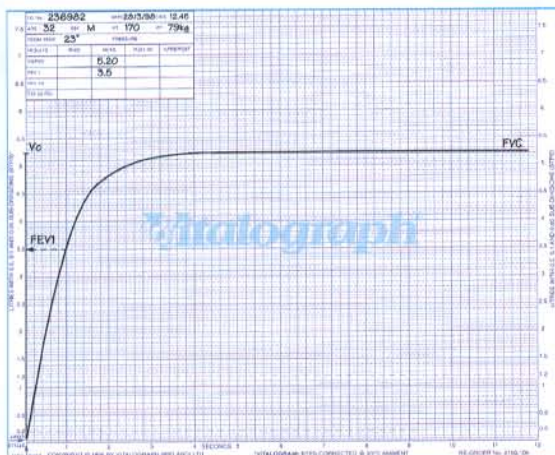
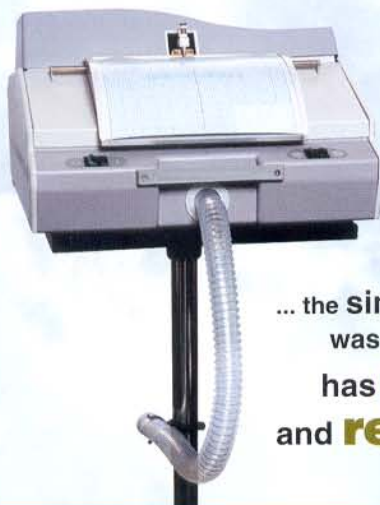


## ... the **original simple office spirometer**

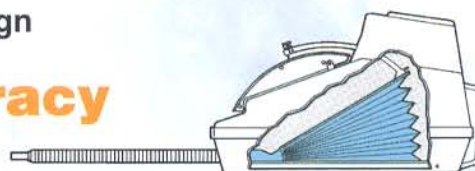
- ▼ high accuracy, direct volume measurement
- ▼ simple and fast measurement of FVC, FEV1 and FEV1%
- ▼ inspiratory testing possible using the BVF
- ▼ simple checking of accuracy and linearity using a precision syringe



- ▼ record chart printed for BTPS readings
- ▼ the 12-second chart is important when testing COPD patients
- ▼ guaranteed 40 years storage life of chart from inkless stylus
- ▼ 8 litre charts conform to European spirometry standards
- ▼ use with SafeTway or BVF for assured hygiene
- ▼ the long breathing tubes minimise the risk of cross-contamination between subjects (optional machine washable tubes available)



... the simple wedge bellows design  
was first launched in 1963 and  
has **proven accuracy**  
and **reliability** worldwide





## Features ...

- ▼ direct visualisation of Pre-Post Bronchodilation curves
- ▼ real time graphs and serial measurements over many years on one chart
- ▼ simple bronchial challenge testing by moving stylus start to visualise dose response
- ▼ a 3-position chart-switch for manual or automatic chart carrier return
- ▼ provides a permanent hard copy record for all tests carried out
- ▼ wedge type bellows design measuring system
- ▼ large chart for real time graphics
- ▼ disposable or washable breathing tubes
- ▼ moving stylus provides an excellent incentive for patients to make their best efforts ensuring good quality test
- ▼ direct volume measuring system that offer the highest degree of accuracy in spirometry for FVC, FEV1 and FEV1%

## Technical Specifications ...

- ▼ Measuring principle: ..... dry wedge type bellows
- ▼ Measuring accuracy: ..... better than  $\pm 3\%/50\text{mL}$  (ATS 1994)
- ▼ Linearity: ..... litre-by-litre system
- ▼ Size: ..... 460 x 465 x 290mm
- ▼ Weight: ..... 8.7kg
- ▼ Back pressure: .....  $< 2.5\text{cmH}_2\text{O/L/s}$  (Complies to ATS 1994)
- ▼ Volume measurement: ..... direct
- ▼ Maximum recorder volume: ..... 8 L BTPS at 23°C (12-s)
- ▼ Volume accumulation: ..... 12 s dynamic (infinite static)
- ▼ Recording speed: ..... 20mm/sec over 12 sec

## Model 2150

- ▼ Power supply: ..... 10V DC via PowerSAFE
- ▼ Activation volume: ..... 0.04 L
- ▼ Operating temp. (physiological): ..... 15°C – 37°C
- ▼ Leakage Rate: ..... 0.038L/min max. @ 4L, 300g load
- ▼ Timing accuracy: .....  $\pm 1\%$  of measured time (ATS 1994)
- ▼ Writing system: ..... inkless stylus
- ▼ Chart scales: ..... 12-s/8L BTPS; 6-s/7.8L BTPS @ 23°C
- ▼ Storage conditions: ..... 0 – 50°C; 10 – 95% relative humidity
- ▼ Safety standards: ..... CE Mark, EN60601-1/2
- ▼ Spirometry standards: ..... ATS '94, ERS '93

## Ordering Information ...

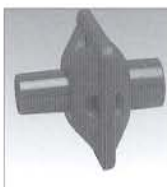
- 81500 ..... Vitalograph Gold Standard
- 20505 ..... Pedestal Stand
- 20408 ..... 1-L precision syringe
- 36020 ..... 3-L syringe
- 2150100 ..... 12-s Charts (200)
- 2150400 ..... Washable breathing tubes (5)
- 2150300 ..... Long breathing tubes (10)
- 20242 ..... SafeTway mouthpieces (200)
- 20303 ..... Nose clips (10)
- 28350 ..... BVF (50)
- 20991 ..... Long SafeTway (130)
- 17105 ..... Simple Measurement Booklet
- 14353 ..... Spirometry Teaching CD
- 14001 ..... Spirometry Workshop

## Single Use Disposables ...



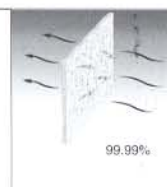
When expiratory testing only, the low cost SafeTway™ mouthpiece can be used. Designed to prevent cross-infection during pulmonary function testing, it has a one-way valve to prevent subjects accidentally breathing in through the spirometer.

Adaptors to fit most types of PFT equipment



When inspiratory and expiratory testing, the Bacterial/Viral Filter should be used. Designed specially for pulmonary function testing, the low back-pressure filter has a bacterial and viral cross-contamination reduction efficiency of 99.99%.

Adaptors to fit most types of PFT equipment



from Vitalograph®

... the spirometry people



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