

EP-LU10001 SP-01 USB Spirometer "EUROSPIRO"



N.B. Product is subject to change without prior notice. The actual product might differ from the pictures here shown.

Description

EUROSPIRO SP-01 is the new solution for spirometry according to BTPS. It features USB interface and bi-directional digital turbine.

EUROSPIRO SP-01 Supports forced, relaxed and MVV vital capacity measurements. Three measurement modes. Supports real-time monitoring of device connection and correction of body temperature and saturated pressure (BTPS).

Supports flow-volume curve (volume velocity loop) and volume-time curve (vital capacity-time curve). Detects up to 50 analysis parameters such as FVC, PEF, FEV1, FEV1/FVC, FEV6 lung age, etc. Supports detection, automatic diagnosis and end of exhalation.

EUROSPIRO SP-01 is compatible with
BOFAP[®]
The only cardboard AVB Filter!
Designed, patented and manufactured by LUMED[®]

Technical features																																																									
Make & Model	Beneware SP-01																																																								
Transducer	Bi-directional digital turbine																																																								
Temperature Sensor	Semiconductor, 0°-45°C																																																								
Volumes	0 to 10 litres, accuracy ±3% or 50 ml																																																								
Flows	-16 to 16 liters/sec, accuracy ± 5% or 200 ml/s																																																								
BTPS	Automatic BTPS correction is included (Body Temperature and Pressure Saturated)																																																								
Resistance at 12 l/s	< 0.5 cm H ₂ O/liter/sec																																																								
Predicted Values	GLI, ECCS, Austrian-Forche, Multicentrico de Barcelona, Polgar 71 e 79, Morris, Austrian Reference Values, Crapo, Charniak, Knudson, Ulmer, Baur, Hankinson (Caucasian/Asiatic, Afro-American, Latin American), Schindl, Zapletal, Zhejiang, Chinese																																																								
Acceptance Criteria	ATS, ERS, BTS																																																								
Evaluation Models	ATS/ERS 2005, NICE 2010, ARTP																																																								
Comparison	Pre- & Post Bronchodilator match, best curve of the session etc.																																																								
Parameters	<table border="0"> <tr> <td>✓ *FVC</td> <td>✓ FEV05</td> <td>✓ FET</td> <td>✓ IC</td> </tr> <tr> <td>✓ *FEV1</td> <td>✓ FEV05/FVC</td> <td>✓ EVOL</td> <td>✓ ERV</td> </tr> <tr> <td>✓ *PEF</td> <td>✓ FEV075</td> <td>✓ FIVC</td> <td>✓ IRV</td> </tr> <tr> <td>✓ FVC</td> <td>✓ FEV075/FVC</td> <td>✓ FIV1</td> <td>✓ VT</td> </tr> <tr> <td>✓ FEV1</td> <td>✓ FEV2</td> <td>✓ FIV1/FIVC</td> <td>✓ VE</td> </tr> <tr> <td>✓ FEV1/FVC</td> <td>✓ FEV2/FVC</td> <td>✓ PIF</td> <td>✓ Rf</td> </tr> <tr> <td>✓ FEV1/VC</td> <td>✓ FEV3</td> <td>✓ FIF25</td> <td>✓ tI</td> </tr> <tr> <td>✓ PEF</td> <td>✓ FEV3/FVC</td> <td>✓ FIF50</td> <td>✓ tE</td> </tr> <tr> <td>✓ PEF Time</td> <td>✓ FEV6</td> <td>✓ FIF75</td> <td>✓ TV/tI</td> </tr> <tr> <td>✓ FEF2575</td> <td>✓ FEV1/FEV6</td> <td>✓ FEF50/FIF50</td> <td>✓ tI/tTOT</td> </tr> <tr> <td>✓ FEF7585</td> <td>✓ FEV1/PEF</td> <td>✓ MVVcal</td> <td>✓ MVV</td> </tr> <tr> <td>✓ FEF25</td> <td>✓ FEV1/FEV0.5</td> <td>✓ VC</td> <td>✓ ELA</td> </tr> <tr> <td>✓ FEF50</td> <td>✓ FET</td> <td>✓ EVC</td> <td>* best values</td> </tr> <tr> <td>✓ FEF75</td> <td>✓ EVOL</td> <td>✓ IVC</td> <td></td> </tr> </table>	✓ *FVC	✓ FEV05	✓ FET	✓ IC	✓ *FEV1	✓ FEV05/FVC	✓ EVOL	✓ ERV	✓ *PEF	✓ FEV075	✓ FIVC	✓ IRV	✓ FVC	✓ FEV075/FVC	✓ FIV1	✓ VT	✓ FEV1	✓ FEV2	✓ FIV1/FIVC	✓ VE	✓ FEV1/FVC	✓ FEV2/FVC	✓ PIF	✓ Rf	✓ FEV1/VC	✓ FEV3	✓ FIF25	✓ tI	✓ PEF	✓ FEV3/FVC	✓ FIF50	✓ tE	✓ PEF Time	✓ FEV6	✓ FIF75	✓ TV/tI	✓ FEF2575	✓ FEV1/FEV6	✓ FEF50/FIF50	✓ tI/tTOT	✓ FEF7585	✓ FEV1/PEF	✓ MVVcal	✓ MVV	✓ FEF25	✓ FEV1/FEV0.5	✓ VC	✓ ELA	✓ FEF50	✓ FET	✓ EVC	* best values	✓ FEF75	✓ EVOL	✓ IVC	
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Interface	USB																																																								
Languages	Italiano, English, Spanish, French, German, Portugues, Polish, Russian.																																																								
Protection Grade	IPX0																																																								
Size & Weight	144,5 x 52 x 28,5 mm; 100 grams																																																								
Environmental	Temp. 5°-40°C, Humidity < 80% not condensing, Pressure 700-1060 hPa																																																								
Safety, Protection	Class II, BF Type																																																								
Power	5.0V±10% from USB port A-Type																																																								
Scope of delivery	Turbine, software (Windows 10 and 11), USB cable, User Manual																																																								