Innocor® CO

Technical Specifications

Product	Description	REF
Innocor CO	Cardiac Output	INN00100-1
Standard Packaging	Innocor unit, respiratory valve, sampling line, 3L and 4L rebreathing bags, pulse oximeter, mouthpieces (4 pcs), antibacterial filters (10 pcs), nose clips (5 pcs), software, power cord and user manual.	
Standard tests		
Cardiac Output	CO, Pulmonary Blood Flow, Lung Volume	
Optional tests		
CPET - Breath by Breath	Gas Exchange (VO_2, VCO_2, RER), Ventilatory (VE, VT, RR), Heart Rate, Spirometry (FVC, FEV_1)	
Lung Clearance Index	LCI, FRC	
Flowmeter		
Type	Differential pressure pneumotachometer	
Range (Standard size)	±15 L/s	
Flow accuracy	$\pm2\%$ rel. or ±20 mL/s	
Volume accuracy	$\pm3\%$ rel. or ±50 mL	
Sampling frequency	100 Hz	
Rebreathing valve		
Type	Pneumatic, with silicone valve insert	
Dead space, Standard/Compact (rebreathing)	50/11 mL	
Multi-Gas analyser		
Type	Photoacoustic spectroscopy	
Components and ranges	N_2O 0-2.5%, SF_6 0-0.5%, CO_2 0-10%	
Accuracy after calibration	$\pm 1.5\%$ rel.	
Signal-to-noise ratio	> 1000 @ half-scale (N_2O and SF_6) > 400 @ half-scale (CO_2)	
Sampling frequency	100 Hz	
Sample flow rate	120 mL/min	
Rise time (10-90%)	< 200 ms	
Oxygen sensor		
Type	Laser diode absorption spectroscopy	
Range	5-100%	
Accuracy after calibration	$\pm 1.5\%$ rel.	
Signal-to-noise ratio	> 500 @ 21% O_2	
Sampling frequency	100 Hz	
Sample flow rate (same flow as above)	120 mL/min	
Rise time (10-90%)	< 170 ms	
Gas supply		
Gas composition	5% N_2O, 1% SF_6, 94% O_2	
Cylinder capacity	18 L (0.15 L @ 124 bar & 21 °C)	
Approx. number of tests (at rest)	~75	
Hardware		
Dimension & Weight	35 x 29 x 26 cm / 8 kg	
Power supply	100-120 V / 200-240 V, 50/60 Hz	
Power consumption	30 W nom., 50 W max.	
Environmental		
Operating temperature	10 - 40 °C	
Operating pressure	525 - 800 mmHg	

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Software	
Available languages	English (US/GB/IE), Danish, German, Italian, Spanish, Dutch, Portuguese, Swedish, French
PC Configuration	Windows 10, RAM >1 GB, Hard Disk >16 GB, 1 USB port
Safety & Quality Standards	
FDA 510(k), EN 60601-1 (safety) / EN 60601-1-2 (EMC)	

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