

TECHNICAL INFORMATIONS BODYBOXEVOLUTION



Flow sensor

type	differ. pressure variable orifice
housing material	POM
screen material	Hostaphab RN50
weight	34 g
dimensions oval (d1 / d2 / l)	42 / 29 / 88 mm
effektive dead space	< 30 ml
back pressure @ 0,1 l/s	0,072 kPa/l*s
back pressure @ 15 l/s	0,068 kPa/l*s
flow range	0,01 - 16 l/s
flow resolution	0,007 l/s
physical linearity error	±3 %
volume resolution	0,01 ml
effektive dead space with filter & mouthpiece*	< 80 ml
back pressure flow sensor & filter @ 1 l/s *	< 0,11 kPa/l*s

* in combination with a Lemon Medical filter, type: pulmosafe

BodyBox

type	volume constant
box material	coated wood, glass, stainless steel
weight	169 kg
dimensions oval (w / l / h)	1160 / 835 / 1830 mm
volume	≈ 1100 l
pressure calibration syringe	50 ml
reference volume for TGV calibration	2660 ml
door locking	electromagnetic

Elektronic box

material	aluminium
weight	2800 g
dimensions (l / w / h)	250 / 250 / 90 mm
PC connector	mini USB
PC interface	USB 2.0
power supply voltage	230 VAC
electrical power max.	100 VA
flow pressure transducer	piezo resistive
flow pressure range	12,5 mbar
flow pressure linearity error	±0,05 % fs
flow pressure ADU	12 bit
mouth pressure transducer	piezo resistive
mouth pressure range	75 mbar
mouth pressure linearity error	±0,05 % fs
mouth pressure ADU	12 bit
box pressure transducer	piezo resistive
box pressure range	2,5 mbar
box pressure linearity error	±0,05 % fs
box pressure ADU	12 bit
ambient pressure range	800 - 1100 mbar
ambient pressure error	±0,05 % fs
temperature sensor range	-40 - 125 °C
temperature sensor error	±2 K
humidity sensor	0 -100 %rel
humidity sensor error	1,8 %rel
sampling rate	125 Hz
software requirements	WIN7 & WINXP