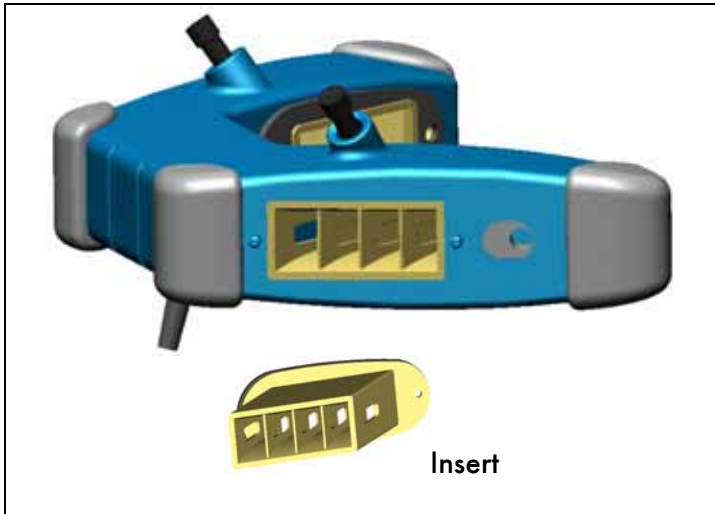




EXHALYZER[®]V

A unique system to analyze the equines respiratory system



The next generation of the patented ultrasonic flow head for horses with inserts. Tidal breathing analysis

Flow range: >100 l/s
 Pressure measurement: ± 100 mbar, optional
 Gas monitoring: side stream, optional
 Voltage: 100 - 240 V, 150 VA
 Weight flow head: 1.2 kg at 300 ml V_d
 Inserts: replaceable/washable

valve system

Helium wash-out curve

Option: FRC

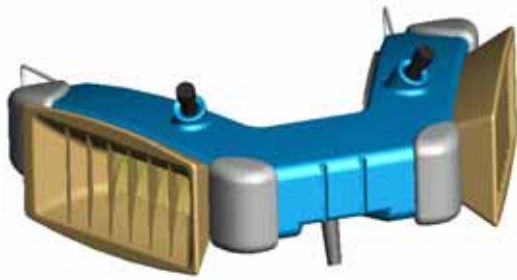
A valve system controls the supply of the inspiratory gases.

The ultra sonic flow measurement calculates the "Molecular Mass" of the airflow within the sensor. Using an inert gas with a low (SF₆) or high (He) "Molecular Mass" enables an online visible wash-in and washout of the horses "Functional Residual Lung volume". The calculation of the volumes during this procedure allows FRC calculations.

Time constants of the washout procedure such as "lung clearance" contain information about the ventilation inhomogeneity of the lung.

In combination with exercise testing TLC, RV etc. can be calculated.

TLC	VC	IC	IRV
			TV
		FRC	ERV
	RV		RV



Option: Peak flow

For "peak flow" tests an attachment for aerodynamic flow conditioning can be mounted.

In combination with exercise testing, the obstructive nature of upper airway diseases can be quantified reliably.

"Pre-Post" reports can document the success of therapy and surgery.

SPIROWARE®: A software program for the clinic, research and education

SPIROWARE® is a well established software program for lung function testing. The program has an Icon controlled desktop for the daily routine with printout reports but offers access to real data for research. A free offline version can be used for education, lectures and courses.

The next generation of the unique patented ultrasonic spirometry for horses



EXHALYZER® V basic unit

System Requirements

PC Pentium 3 or better, Microsoft Windows XP or higher and Internet Explorer (V5.0 or higher)
16Mbyte of RAM, 10MB of free disk space, XGA graphic adapter or better, CD- and 3.5" disk drive
(Note: PC and Printer are not part of our delivery).

ECO MEDICS reserves the right to change these specifications without notice.

