



AADEE S.A.

RUMI
Blood Gas and pH Analyzer



Measured Parameters

pH, pCO₂ y pO₂.

Calculated Parameters

HCO₃⁻, ST.pH, Bstd, BEp, EBs,
BEfec, O₂sat, TCO₂ y O₂CT

RUMI BG has a highly versatile patented device that allows 22 /30-per-hour samples input by syringe or capillary aspiration, or syringe injection.

RUMI

Blood Gas and pH Analyzer

MEASURED PARAMETERS

pH	Range: 6,000 to 8,000 pH units Display Resolution: $\leq 0,01$ DS: $\leq 0,01$
pCO₂	Range: 5,0 to 200,0 mmHg Display Resolution: 0,1 mmHg DS: $\leq 1,2$
pO₂	Range: 0,0 to 500,0 mmHg Display Resolution: 0,1 mmHg DS: $\leq 1,5$

Sample entry

RUMI BG has a highly versatile patented device that allows 22 /30-per-hour samples input by syringe or capillary aspiration, or syringe injection.

Micro-chamber

It is the efficient heart of the system. It is filled with 60 μ l (minimum) sample. It has four low maintenance mini-electrodes. Each part has been developed and manufactured in Argentina by AADEE.

Micro-method Technique

This enables to get all measured and calculated parameters from a 30 μ l sample following a two-steps process. This is ideal for neonatology, pediatrics and geriatrics, where it is difficult and even dangerous to obtain larger samples.

Built-in Digital Computer

User-accessible through a touch-screen color display, it performs either automatically, scheduled or forced the necessary calibrations; print-outs and the sample chamber wash-up alternatively with the gas access, thus refreshing the electrodes when they are not measuring. The touch-screen allows introduction of patient's name or sample identification with a number. It has also an independent quality control program that provides statistical results based on 3-ampoule- levels, from which Levey-Jennings graphics can be made.

New Design

A modern and ergonomic cabinet was designed specially to allow easy access to all the parts and reagents inside. The use of manifolds reduces the number of tubing, rendering the technical maintenance easier.

Low Operational Cost

Because of its 60 μ l micro-chamber and a peristaltic pump, it minimizes the amount of reagents to be used.

TECHNICAL CHARACTERISTICS

Power Supply: 220VCA 50/60 Hz.

Also available upon request: 110VCA 50/60 Hz.

Consumption: 80W Maximum.

Dimensions: 43cm (width), 55cm (height), 26cm (depth).

Weight: Instrument only 14 Kg., gas dispenser with full gas bottles: 6,975 Kg.



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CALCULATED PARAMETERS

HCO₃⁻:	Plasma Bicarbonate. 1 to 100mmol/l
STpH:	Standard pH (pCO ₂ = 40 mmHg)
STB:	Standard Bicarbonate (pCO ₂ = 40 mmHg)
BEp:	Plasma Base Excess -40 to +40 mmol/l
BEs:	Base Excess in blood -40 to +40 mmol/l
BEfec:	Base Excess in extracellular fluid -40 to +40 mmol/l
O₂Sat:	Oxygen Saturation 15 to 99,9%
O₂CT:	Total O ₂ Content 0 to 56 vol %.
TCO₂:	Total CO ₂ Content 1 to 100 mmol/l

Permanent Information

All measurement and calibrations reports include date, time and patient name, and the time and type of the next calibration are permanently displayed. Last measured and calculated parameters, calibration points, quality control statistics and graphics, standards in use, are always kept in a battery-back-up-memory with minimum 60-minute autonomy.

Patients Memory

The last 128 completed results are always kept in the memory, available for eventual consultation or printing.

Ready to operate

A green/red LED on top will indicate you if the analyzer is ready (green) or not ready (red) for introducing a sample.

Easy to use software

It simplifies the operation of the analyzer both in normal use or whenever it is necessary to solve any operational problem.

Maintenance software

It offers a wide range of easy-to-operate and precise solutions. It has also further levels of diagnostic software for trained personnel; this software is extremely useful to avoid unnecessary service visits.

Alarm

An integrated alarm system will alert you with text messages (not through error code numbers) and audio signal when your attention is needed: waste bottle full, no buffer detected, no washing solution, etc. . .

OPTIONAL

LBar code reader for patient data input.

