

	AA-2005	5330 Agent Monitor	Riken FI-21
Measurement Accuracy:	Agents: \pm (0.1% abs. + 4% reading)	<u>Agents: Enflurane, Halothane, Isoflurane, Sevoflurane</u> 0 to 1.0% (+/- 0.2%) 1.1 to 6.0% (+/- 0.3%) 6.1 to 7.0% (+/- 0.35%) <u>Agent: Desflurane</u> 0 to 4.9% (+/- 0.2%) 5.0 to 9.9% (+/- 0.5%) 10.0 to 18.0% (+/- 1.0%) 18.1 to 22.0% (+/- 2.0%)	+/- 3% of indicated value + 1 digit, plus drift spec
	CO2: \pm 0.2% abs. or 4% of reading	Not Measured	Not Measured
	N2O: \pm (1.5% abs. + 4% of reading)	Not Measured	Not Measured
	Oxygen: \pm 3 vol% (for 0-90%),	Not Measured	Not Measured
Measurement Range:	Halothane: 0 to 10%	Enflurane, Halothane, Isoflurane, Sevoflurane Range: 0 to 9%	Halothane: 0 to 6%
	Enflurane: 0 to 10%	Desflurane Range: 0 to 24%	Ethrane: Not measured
	Isoflurane: 0 to 10%		Isoflurane: 0 to 8%
	Desflurane: 0 to 20%		Desflurane: 0 to 20%
	Sevoflurane: 0 to 10%		Sevoflurane: 0 to 10%
Operational Environment	Operating Temperature: 15° to 35° C; 59° to 95° F	Temperature: 15 to 35°C	5° to 35° C
	Storage Temperature: -5° to 50° C; 23° to 122° F	Humidity: 0 to 95% RH, non-condensing	Humidity: Below 80% RH
	Operating/Storage Humidity: 15% to 95%, noncondensing		
Response Time:	Agents: 450 msec	600 msec	N/A
	CO2: 350 msec	Not Measured	Not Measured
	N2O: 400 msec	Not Measured	Not Measured
	Oxygen: 600 msec	Not Measured	Not Measured
Altitude:	-300m to 3000m (-1,000 to 10,000) ft		

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Compensation:	Temperature & barometric pressure	Temperature & barometric pressure	No compensation for BP or Temperature
General	Weight: 5.9 kg. (13 lbs.)	Height: 4 in, 10.16 cm	Approximately 2 kg
	Size: 16.5cm (H) x 27.9cm (W) x 30.5cm	Width: 10 in, 25.4 cm	Size 145 mm (H) x 200 mm (W) x 80 mm (D)
	(D); 6.5" (H) x 11.0" (W) x 12.0" (D)	Depth: 16 in, 40.64 cm	
		Weight: 13.25 lbs, 6 kg	
Com Ports:	Com 1; RS 232-compatible, Serial DB-9	RS-232 compatible	0-1 VDC Analog
	Com 2; Serial/Analog, mini-DIN8		
Display	Digital	Digital	Digital
Power	AC and Rechargeable Battery	A/C	Non-rechargeable C-Cell Batteries (4)
Internal pump	Yes	Yes	Yes
Calibration	Field Cal - 5 gas cylinders	Field Cal - Gas - 3-cans (A, B & C)	No field cal - Depot only
Recommended calibration interval	6-Months	30-days	1-year
User error issues	No	No	Yes
Clumsy to use	No	No	Yes
Can agents be changed easily?	Auto Agent ID	Yes	No
Small and compact	Somewhat	Somewhat	Yes
Factory support issues	No	Yes (support ends June/July 2007)	No, other than sometimes units have to go back to Japan for service
Ability to determine mixed agents	Yes	No	No
Measures Ethrane, Forane, Halothane, Des & Sevo	Yes	Yes	Measures all agents except for Ethrane
Direct reading (all agents)	Yes	Yes	Yes

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Warm-up concerns	No - 15 to 30 Minutes. Indicates when warm-up is complete	Yes	No
Price	\$5,995	Was \$2,995 Reconditioned (new ~\$5,000)	\$3,550.00
Ability to specify carrier gas	No need (Infrared)	No need (Infrared)	Yes
BP Compensation	Yes	Yes	No
Measures other gases?	Yes - CO2, N2O and O2 in percentage values	No	No

Vaporizer Analyzer Comparison

	AA-2005	5330	FI-21
Display	Digital	Digital	Digital
Power	AC and Rechargable Battery	A/C	Disposable C-Cells
Internal pump	Yes	Yes	Yes
Calibration	Field Cal - 5 gas cylinders	Field Cal - Gas - 3-cans (A, B & C)	Return for service
Recommended calibration interval	6-Months	30-days	1-Year
User error issues	No	No	No
Clumsy to use	No	No	Yes
Can agents be changed easily?	Auto Agent ID	Yes	No (has to be turned off and back on)
Small and compact	Somewhat	Somewhat	Yes
Factory support issues	No	Yes (support ends June/July 2007)	No
Ability to determine mixed agents	Yes	No	No
Measures Ethrane, Forane, Halothane, Des & Sevo	Yes	Yes	All but Ethrane, which may be discontinued
Direct reading (all agents)	Yes	Yes	Yes
Warm-up concerns	No - 15 to 30 Minutes. Indicates when warm-up is complete	Yes	No
Price	\$5,995	Was \$2,995 Reconditioned (new ~\$5,000)	\$3,550
Ability to specify carrier gas	No need (Infrared)	No need (Infrared)	Yes
BP Compensation	Yes	Yes	No
Measures other gases?	Yes - CO2, N2O and O2 in percentage values	No	No