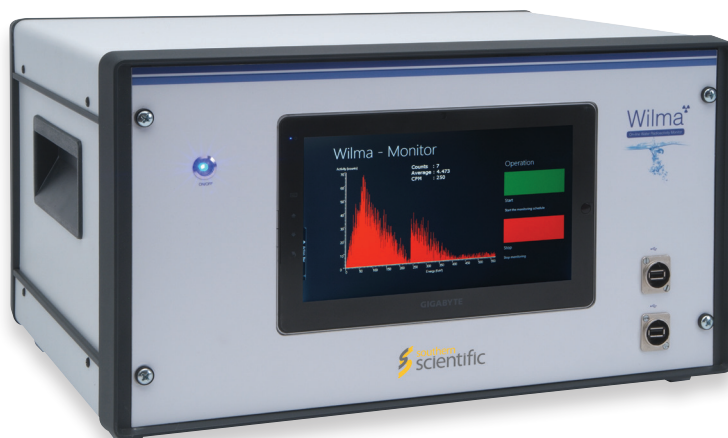


Technical Specification Summary

Wilma⁺

On-line Water Radioactivity Monitor



Wilma Benchtop System

Dimensions (mm)	520 (W) x 400 (D) x 300 (H) mm
Mass (kg)	30
Power	100 - 240 Vac Internal power supply output rated at 24 Vdc, 6.5A (150 W max.)
Interfaces	USB Ethernet option Output to external data logger (e.g. MODBUS) option
Detector Geometry	2 x 28 mm diameter PMTs operating in coincidence mode
Detector Shielding	10 mm Pb phosphor bronze Additional Pb shield options
Integral Scintillation Cocktail Pump Flow Rate Range (ml/min)	<0.5 to 30
Integral Sample Pump Flow Rate Range (ml/min)	<0.5 to 30
Integral Wash Solution Pump Flow Rate Range (ml/min)	<0.5 to 30
Integral Standard Solution Pump Flow Rate Range (ml/min)	<0.5 to 30
Counting Window Discrimination	Two counting channels, 0-9999 mV pulse amplitude range
Background count rate (open window, luminescence subtracted) (cpm)	<15
Background count rate (open window, non-subtracted) (cpm)	<40

Technical Specification Summary

Wilma Benchtop System

^3H Counting Efficiency
(unquenched, %) >50

^{14}C Counting Efficiency
(unquenched, %) >90

Flow Cell Ranges 5 ml bulk liquid cell as standard
Coiled liquid and packed solid scintillator cells available as options (100 μl to 1 ml)

Flow Options Discrete sampling mode (default)
Continuous sampling mode (optional)
Automated wash cycle
Automated standard introduction

External I/O 4 x USB
Temperature sensor (optional)
HDMI
Ethernet Network Port

Control Software Integrated Wilma software and user interface via industrial fanless touchscreen PC

Fluid Handling Liquid manifold with integral switching valves
Standard bulkhead tubing fittings for 1/8" (3.2 mm) OD tubing and M6 metric thread

Options Multichannel analyser (MCA) for LSC spectra



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