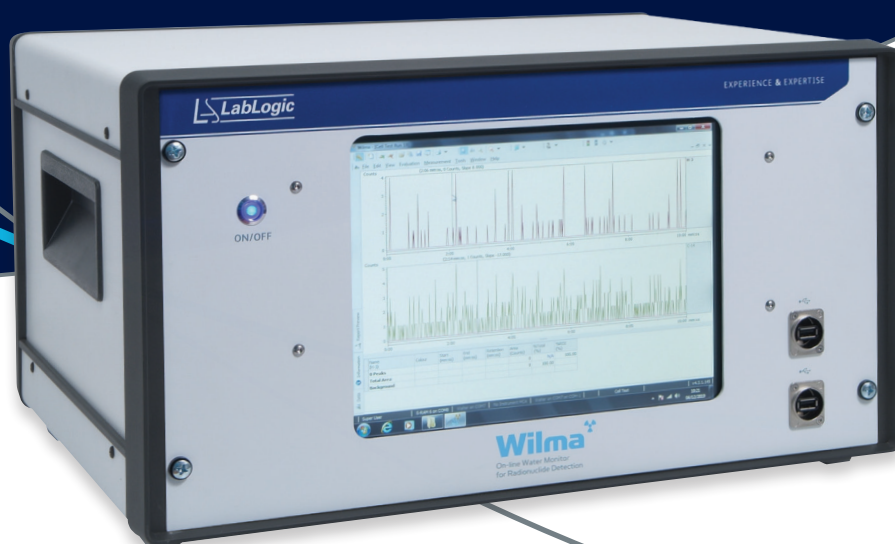


# Product Datasheet

# 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

## Wilma Benchtop System

**$^3\text{H}$  Counting Efficiency**  
(unquenched, %)

>50

**$^{14}\text{C}$  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  $\mu\text{l}$  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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