

Waltron 3051 Hardness Analyzer

The Waltron 3051 Hardness Analyzer stands alone as able to deliver the most accurate and repeatable results for online analysis of low level hardness in ultrapure water applications.

Waltron 3051 Hardness Analyzer
 Features:
 - Accurate analysis
 - Multi-stream available
 - Fast loop reservoir
 - Adjustable cycle and calibration frequency
 - Automatic calibration and validation (QA/QC)
 - Compact design
 - Color touchscreen display
 - Grab sample capability
 - Internal datalogger
 - Low reagent level alarm
 - Automatic start/stop based on sample flow detection
 - Minimal analyzer maintenance

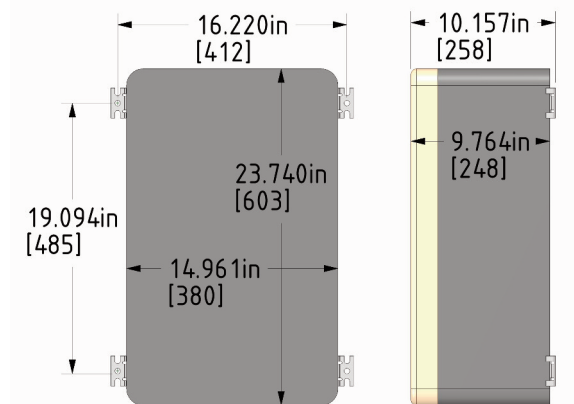


Wet Section

FEATURES

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See reverse side for specifications.



3051 CALCIUM HARDNESS ANALYZER | GENERAL SPECIFICATIONS

PERFORMANCE

Range	0-250ppb, 0-1ppm
Accuracy	+/- 5 ppb or +/-3% of full scale, whichever is greater
Reproducibility	+/- 5 ppb or +/- 5% of reading, whichever is greater
Analysis Time	10 min, batch process
Sampling Frequency (Cycle Time)	One reading every 20 mins, adjustable
Required Maintenance	Once a month replenish reagents, Quarterly replace tubing
Reagent Consumption (approximate)	3 reagents, 2L each per month
Sensor Classification	Colorimetric with glass flowcell and LED source
Application	Boiler water and cooling water
Ambient Temperature Range	10-45°C analyzer (50-113°F)
Atmospheric Pressure Range	No Limits
Humidity	Up to 90% not condensable
Unit Dimensions	Height=23.6"(60 cm), Width=15"(38 cm), Depth=8.3"(21 cm)
Positioning and Installation Details	Wall mounting, bench supported, or panel mounting (optional)
Weight	17 kg (37.5 lbs.)
Degree of Protection	IP55 (NEMA 4): Wet section, IP65 (NEMA 4x): Electronics
Alarms	2 or 4 configurable alarm relays
Power Supply	110-220Vac, 50-60 Hz 80 VA (Result, loss of sample, fault)
Certification (on request)	Meets low voltage and low electromagnetic compatibility directives

SAMPLE DELIVERY OPERATING CONDITIONS

Temperature Range	5-55°C (41-131°F)
Inlet Sample	100-500 ml/min, atmospheric, flexible tubing O.D. 1/4"(6 mm)
Outlet Sample	Atmospheric, waste tubing O.D. 3/8"(9 mm)
PH	3-12
Sample Conditioning Requirements	Filtering between 10 and 60 micron, depending on the matrix, needed only to avoid clogging.
Materials in Contact with Sample	Glass, Silicone, Plexiglass, Stainless Steel AISI 316

SIGNAL OUTPUTS

Analogue Outputs	4-20mA (galvanic isolator module available as option) or 0-5V
Serial I/O Options	RS232; RS485; MODBUS; PROFIBUS

OPERATIONAL CALIBRATION

Single/Multi Point	Multi-Point: zero and mid range
Matrix Corrections	Yes, sample blank correction
Manual/Automatic	Both

102-019-D.1



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