CL17sc (Colorimetric Chlorine Analyzer) vs. CL10sc (Amperometric Chlorine Analyzer)

Cost of Ownership Over 5 Years – Comparison Guide

CL17sc Chlorine Analyzer – Total or Free Chlorine (without SC controller) COLORIMETRIC METHOD	
Cost of instrument	**$3,538.00**
Cost of reagents/month	$76.35
Labor time in minutes – change reagents	10
Estimated labor rate/hour	$40.00
Annual cost of monthly reagents change, including reagents and labor	$996.20
Price pre-cut tubing kit, enough tubing for one year if tubing is changed every six months	$151.00
Labor time in minutes – change tubing	5
Annual cost to change tubing semi-annually, including parts and labor	$308.67
Cell cleaning kit	$24.95
Minutes to clean cell, once every month	5
Annual cost to clean cell, incl labor and parts	$25.95
Total annual cost of parts and maintenance	**$1,330.82**
Total cost of ownership over 5 years	**$10,192.08**
Amortized cost per day over 5 years including all labor, parts and instrument cost	**$5.58**

CL 10sc Chlorine Analyzer – Total or Free Chlorine (not including SC controller or optional pH electrode) AMPEROMETRIC METHOD	
Cost of instrument	**$5,690.00**
Cost of electrolyte	$125.00
Cost of membrane kit	$135.00
Estimated labor rate per hour (cell c6)	$40.00
Number of membrane changes per year	2
Labor time, minutes, per membrane change including electrolyte	20
Annual cost to change membrane and electrolyte	$421.67
Cost to replace chlorine probe once every 3 years on average	$2,398.00
Annual cost to change chlorine probe	$809.33
Labor time to replace chlorine probe, min	15
Labor time per month in minutes – clean, check calibration	10
Labor time to calibrate, min	10
Calibrations per year	12
Annual calibration cost	$160.00
Total annual cost of parts and maintenance	**$1,391.00**
Total cost of ownership over 5 years	**$12,645.00**
Amortized cost per day over 5 years including all labor, parts and instrument cost	**$6.93**

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