CRYPTOLYTE®

Distributor Portal

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CRYPTOLYTE

- System Sizing & Controller Configuration
  - Existing System Upgrade
  - New System (Spec)
  - Training Videos (How to)
- Pre-Proposal Inspection
- Pre-Installation Check List
- Installation
- Sensor Commissioning
- Startup Configuration Settings
- Startup Troubleshooting
- Startup Calibration
- Neutralization – Post Shock Treatment
- Maintenance Schedule

1 Distributor Input Data — 2 Print & Save

Distributor Input Data

Maximum Chlorine Feed Rate lbs/day as Cl_2

7

Pool Volume Gal

10,000

Submit

Performance Expectations

Pool Dynamic	Startup	Daily	Continuous	Rapid Recovery	Startup
ClO_2 (ppm/min)	Remediation	Maintenance	24/7	Shock (INDOOR/OUTDOOR)	Remediation (EVENING)
0.02	√	√	√	3hr/5hr	8hr
0.03	√	√	√	2.5hr/4.5hr	6hr
0.05	√	√	√	1.5hr/2.5hr	5hr
0.10	√	√	√	45min/1.5hr	4.5hr
0.25	√	√	√	35min/50min	3.5hr
0.30	√	√	√	<30min/45min	3.5hr
0.40	√	√	√	<35min	3hr
0.50	√	√	√	<30min	3hr

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Distributor Input Data

Maximum Chlorine Feed Rate lbs/day as Cl_2

45

Pool Volume Gal

150000

Submit

Performance Expectations

Pool Dynamic	Startup	Daily	Continuous	Rapid Recovery	Startup
ClO_2 (ppm/min)	Remediation	Maintenance	24/7	Shock (INDOOR/OUTDOOR)	Remediation (EVENING)
0.02	√	√	√	3hr/5hr	8hr
0.03	√	√	√	2.5hr/4.5hr	6hr
0.05	√	√	√	1.5hr/2.5hr	5hr
0.10	√	√	√	45min/1.5hr	4.5hr
0.25	√	√	√	35min/50min	3.5hr
0.30	√	√	√	<30min/45min	3.5hr
0.40	√	√	√	<35min	3hr
0.50	√	√	√	<30min	3hr

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Feeder System Sizing

Maximum Chlorine Feed Rate = **45** lbs/day as Cl_2

Pool Volume = **150000** Gal

Cryptolyte® Feed Rate = **33.75** gal/day

Minimum Booster Pump = **3.375** GPM

Muriatic Acid Feed Rate = **21.9 GPD**

OR

Sodium Bisulfate Acid Feed Rate = **291 lbs/Day**

Performance & Controller Configuration

Pool Dynamic = **0.04** ClO_2 ppm/min

TBP SPAN = **0.35** (4.99 Max Value)

Back | Print

Performance Expectations

Pool Dynamic	Startup	Daily	Continuous	Rapid Recovery	Startup
ClO_2 (ppm/min)	Remediation	Maintenance	24/7	Shock (INDOOR/OUTDOOR)	Remediation (EVENING)
0.02	√	√	√	3hr/5hr	8hr
0.03	√	√	√	2.5hr/4.5hr	6hr
0.05	√	√	√	1.5hr/2.5hr	5hr
0.10	√	√	√	45min/1.5hr	4.5hr
0.25	√	√	√	35min/50min	3.5hr
0.30	√	√	√	<30min/45min	3.5hr

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Legend

- SELECT or SET POINT VALUE
- EXISTING DEFAULT VALUE

Feeder System Sizing

Maximum Chlorine Feed Rate = **45** lbs/day as Cl_2

Pool Volume = **150000** Gal

Cryptolyte® Feed Rate = **33.75** gal/day

Minimum Booster Pump = **3.375** GPM

Muriatic Acid Feed Rate = **21.9 GPD** ggested Start Up) [31.45% HCl Undiluted]

OR

Sodium Bisulfate Acid Feed Rate **291 lbs/Day** ggested Start Up) [93% Sodium Bisulfate]

Performance & Controller Configuration

Pool Dynamic = **0.04** ClO_2 ppm/min

TBP SPAN = **0.35** (4.99 Max Value) Automatically Amend Maintenance Mode & Continuous Mode TBP SPAN Value

pH Configuration

- pH Control Type
  - On/Off or Time Base Proportional control
- Set Point
  - Default value 7.5pH
- TBP Span
  - Default value - 0.2 Set to 2.0
    - If you dilute your acid, determine your TBP Span by multiplying 0.2 by your WATER dilution factor.
    - Example: you currently dilute your Muriatic Acid (HCl) by 9:1 Water to Acid respectfully. Then your new TBP Span will be 0.2 x 9 = 1.8
- TBP Time Base
  - Total cycle time for proportional control.
  - Default value - 1 Min Ensures always in Time Base Control when Controlling Cryptolyte
- Min On Time
  - Default value - 3s
- Failsafe Timer
  - Default value - 60min

Chlorine Confirguration

- Sanitizer Chemical
  - Bromine or Chlorine
- Control Input
  - ORP or Free Chlorine
- Free Cl Control Type
  - On/Off or Time Base Proportional control
- Free Cl TBP Span
  - Default value - 0.2 Adjust higher (0.1 increments) is Chlorine consistently overfeeds
- Free Cl Set Point
  - Default value - 1.2ppm
- TBP Time Base
  - Total cycle time for proportional control
  - Defaul value -1 Min Ensures always in Time Base Control when Controlling Cryptolyte
- Min On Time
  - Default value - 10s
- Failsafe Timer
  - Default value - 1hr

Maintenance Mode Configuration

- Mode
  - Maintenance or Continuous mode.
  - Determines whether the system will run an evening maintenance cycle or continuously maintain a ClO_2 level.
- Maint Start Time
  - Time of day to trigger a maintenance cycle.
  - Default value - 10PM Adjust if needed to ensure pool is closed
- Maint Duration
  - Initial feed duration in maintenance cycle before switching to TBP control.
  - Default value - 0s
- Maint Set Point
  - ClO_2 setpoint that Cryptolyte will control to in maintenance cycle.
  - This value can be disabled to indicate no feeding to setpoint should be done.
  - Default value - 0.5ppm Adjust if needed to complete remediation before pool early opening
- Maint Timeout
  - Maximum time allowed to complete remediation before triggering alarm in maintenance cycle.
  - Default value - 8 hr
- Maint CT Set Pnt
  - CT setpoint for tracking when a remediation has been successfully completed in maintenance cycle.
  - Default value - 160CT
- Maint TBP Span
  - Offset from Maint Setpoint for which proportional control will be engaged. If outside this span, then the feed will be fully on.
  - Default value – 4.99
  - Calculated value – 0.35

Continuous Mode Configuration

- Mode
  - Maintenance or Continuous mode
  - Determines whether the system will run an evening maintenance cycle or continuously maintain a ClO_2 level.
- Cont Set Point
  - ClO_2 setpoint that Cryptolyte will control to in continuous mode
  - Default value - 0.3ppm
- Cont CT Set Pnt
  - CT setpoint for tracking when a remediation has been successfully completed in continuous mode
  - Default value - 160 CT
- Accel Start Time
  - Start time for which accelerated in-situ generation will be performed in continuous mode.
  - Default value - 12AM
- Accel End Time
  - End time for which accelerated in-situ generation will be performed in continuous mode.
  - If start & end time are equal, then this logic will be disabled.
  - Default value - 12AM
- Accel TBP Span
  - Offset from Maint Setpoint for which proportional control will be engaged. If outside this span, then the feed will be fully on.
  - Default value - 4.99
  - Calculated value - 0.35

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Distributor Input Data

Pool Dynamic ClO_2 ppm/min

0.25

Pool Volume Gal

10,000

Submit

Performance Expectations

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