smart release TECHNOLOGY

PRODUCT SELECTION GUIDE

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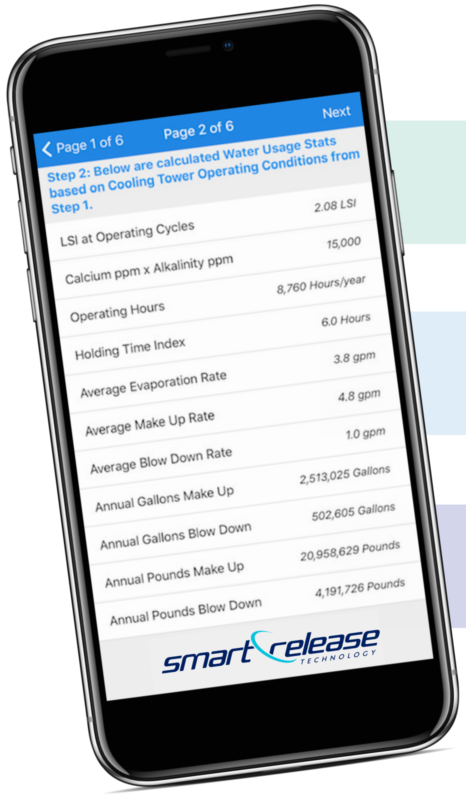
SMART RELEASE® COOLING TOWER

SIZE CALCULATOR

Take the Guesswork Out of Sizing! The SRT Cooling Tower Sizing Calculator helps you:



1. Quickly determine how much product your system needs.
2. Understand what equipment (if any) is required.
3. Save your results by sending a personalized report.

Scan here to try it out! Or visit
https://www.dober.com/cooling-tower-chemicals/app

SCALE & CORROSION INHIBITORS

	PRODUCT	USE CONDITIONS	APPLICATIONS	CONTROLLED RELEASE PERIOD*	TARGET DOSAGE	OPTIMAL DOSAGE RANGE	LSI	pH ***	PTSA TEST RANGE	PO4 TEST RANGE (PALINTEST)** Assume 0ppm in MU	EXPECTED PO4 RESIDUAL Assume Full Digestion	POLYMER TEST RANGE	ACTIVE AZOLE	ACTIVES	CALCIUM RANGE	ALKALINITY RANGE "M"
Smart Release Tablets	CW211-SR	Broad Spectrum scale & corrosion inhibitor product. Low to med hardness/alkalinity.	Cooling towers, Fluid Coolers, and Evaporative Condensers	30-Day Release	25 ppm	20-30 ppm 10-15% outside the optimal range is okay.	<2.2	6.8-8.3 **	29-44 ppb as PTSA 25 ppm = 36 ppb as PTSA	20 ppm = 7 drops 25 ppm = 8 drops 30 ppm = 10 drops	20 ppm = 5.0 ppm PO4 25 ppm = 6.2 ppm PO4 30 ppm = 7.5 ppm PO4	20 ppm = 6.4 ppm 25 ppm = 8.0 ppm 30 ppm = 9.6 ppm	20 ppm = 2.0 ppm BZT 25 ppm = 2.5 ppm BZT 30 ppm = 3.0 ppm BZT	PBTC, HEDP, Polymer, BZT O-PO_4, TKPP, PTSA	25-300 PPM**	25-300 PPM**
Smart Release Tablets	CW311-SR	Broad Spectrum scale & corrosion inhibitor product. Designed for high LSI water applications, but can be for lower LSI applications. High hardness/alkalinity.	Cooling towers, Fluid Coolers, and Evaporative Condensers	30-Day Release	25 ppm	20-30 ppm 10-15% outside the optimal range is okay.	2.0-2.8	8.0-9.0 **	32-47 ppb as PTSA 25 ppm = 40 ppb as PTSA	20 ppm = 6 drops 25 ppm = 8 drops 30 ppm = 10 drops	20 ppm = 3.8 ppm PO4 25 ppm = 4.7 ppm PO4 30 ppm = 5.7 ppm PO4	20 ppm = 6.4 ppm 25 ppm = 8.0 ppm 30 ppm = 9.6 ppm	20 ppm = 2.6 ppm BZT 25 ppm = 3.3 ppm BZT 30 ppm = 3.9 ppm BZT	PBTC, HEDP, Polymer, BZT, PTSA	10-600 PPM**	250-500 PPM**
Smart Release Tablets	CW350-SR	Broad Spectrum scale & corrosion inhibitor product. Designed for use in high Calcium/ LSI water systems that have the potential of Calcium HEDP deposits. High hardness/alkalinity.	Cooling towers, Fluid Coolers, and Evaporative Condensers	30-Day Release	25 ppm	20-30 ppm 10-15% outside the optimal range is okay.	2.2-3.0	8.0-9.2 **	86-129 ppb as PTSA 25 ppm = 107 ppb as PTSA	N/A	20 ppm = 2.0 ppm PO4 25 ppm = 2.5 ppm PO4 30 ppm = 3.1 ppm PO4	20 ppm = 7.3 ppm 25 ppm = 9.1 ppm 30 ppm = 10.9 ppm	20 ppm = 1.9 ppm BZT 25 ppm = 2.3 ppm BZT 30 ppm = 2.8 ppm BZT	PBTC, Polymer, BZT, PTSA	300-700 PPM**	250-600 PPM**
Smart Release Recirculating (Gen 2) Tablets	CW521-SR ■	Broad Spectrum scale & corrosion inhibitor product. Low to med hardness/alkalinity.	Cooling towers, Fluid Coolers, and Evaporative Condensers	Controlled release via recirculating feeder.	20 ppm	20-30 ppm 5-15% outside the optimal range is okay.	<2.2	6.8-8.3 **	29-44 ppb as PTSA 20 ppm = 29 ppb as PTSA	20 ppm = 7 drops 25 ppm = 8 drops 30 ppm = 10 drops	20 ppm = 5.0 ppm PO4 25 ppm = 6.2 ppm PO4 30 ppm = 7.5 ppm PO4	20 ppm = 6.4 ppm 25 ppm = 8.0 ppm 30 ppm = 9.6 ppm	20 ppm = 2.0 ppm BZT 25 ppm = 2.5 ppm BZT 30 ppm = 3.0 ppm BZT	PBTC, HEDP, Polymer, BZT O-PO_4, TKPP, PTSA	25-300 PPM**	25-300 PPM**
Smart Release Recirculating (Gen 2) Tablets	CW511-SR ■	Broad Spectrum scale & corrosion inhibitor product. Designed for high LSI water applications, but can be for lower LSI applications. High hardness/alkalinity.	Cooling towers, Fluid Coolers, and Evaporative Condensers	Controlled release via recirculating feeder.	20 ppm	20-30 ppm 5-15% outside the optimal range is okay.	2.0-2.8	8.0-9.0 **	32-47 ppb as PTSA 20 ppm = 32 ppb as PTSA	20 ppm = 6 drops 25 ppm = 8 drops 30 ppm = 10 drops	20 ppm = 3.8 ppm PO4 25 ppm = 4.7 ppm PO4 30 ppm = 5.7 ppm PO4	20 ppm = 6.4 ppm 25 ppm = 8.0 ppm 30 ppm = 9.6 ppm	20 ppm = 2.6 ppm BZT 25 ppm = 3.3 ppm BZT 30 ppm = 3.9 ppm BZT	PBTC, HEDP, Polymer, BZT, PTSA	10-600 PPM**	250-500 PPM**
Smart Release Recirculating (Gen 2) Tablets	CW550-SR ■	Broad Spectrum scale & corrosion inhibitor product. Designed for use in high Calcium/ LSI water systems that have the potential of Calcium HEDP deposits. High hardness/alkalinity.	Cooling towers, Fluid Coolers, and Evaporative Condensers	Controlled release via recirculating feeder.	20 ppm	20-30 ppm 5-15% outside the optimal range is okay.	2.2-3.0	8.0-9.2 **	86-129 ppb as PTSA 20 ppm = 86 ppb as PTSA	N/A	20 ppm = 2.0 ppm PO4 25 ppm = 2.5 ppm PO4 30 ppm = 3.1 ppm PO4	20 ppm = 7.3 ppm 25 ppm = 9.1 ppm 30 ppm = 10.9 ppm	20 ppm = 1.9 ppm BZT 25 ppm = 2.3 ppm BZT 30 ppm = 2.8 ppm BZT	PBTC, Polymer, BZT, PTSA	300-700 PPM**	250-600 PPM**
Smart Release Recirculating (Gen 2) Tablets	CW521-SR Plus ■	Broad Spectrum scale & corrosion inhibitor product. Low to med hardness/alkalinity. **With DTEA II® bio-dispersant.** ▲	Cooling towers, Fluid Coolers, and Evaporative Condensers	Controlled release via recirculating feeder.	20 ppm	20-30 ppm 5-15% outside the optimal range is okay.	<2.2	6.8-8.3 **	29-44 ppb as PTSA 20 ppm = 29 ppb as PTSA	20 ppm = 7 drops 25 ppm = 8 drops 30 ppm = 10 drops	20 ppm = 5.0 ppm PO4 25 ppm = 6.2 ppm PO4 30 ppm = 7.5 ppm PO4	20 ppm = 6.4 ppm 25 ppm = 8.0 ppm 30 ppm = 9.6 ppm	20 ppm = 2.0 ppm BZT 25 ppm = 2.5 ppm BZT 30 ppm = 3.0 ppm BZT	PBTC, HEDP, Polymer, BZT O-PO_4, TKPP, PTSA, **DTEA II**	25-300 PPM**	25-300 PPM**
Smart Release Recirculating (Gen 2) Tablets	CW511-SR Plus ■	Broad Spectrum scale & corrosion inhibitor product. Designed for high LSI water applications, but can be for lower LSI applications. High hardness/alkalinity. **With DTEA II bio-dispersant.**	Cooling towers, Fluid Coolers, and Evaporative Condensers	Controlled release via recirculating feeder.	20 ppm	20-30 ppm 5-15% outside the optimal range is okay.	2.0-2.8	8.0-9.0 **	32-47 ppb as PTSA 20 ppm = 32 ppb as PTSA	20 ppm = 6 drops 25 ppm = 8 drops 30 ppm = 10 drops	20 ppm = 3.8 ppm PO4 25 ppm = 4.7 ppm PO4 30 ppm = 5.7 ppm PO4	20 ppm = 6.4 ppm 25 ppm = 8.0 ppm 30 ppm = 9.6 ppm	20 ppm = 2.6 ppm BZT 25 ppm = 3.3 ppm BZT 30 ppm = 3.9 ppm BZT	PBTC, HEDP, Polymer, BZT, PTSA, **DTEA II**	10-600 PPM**	250-500 PPM**
Smart Release Recirculating (Gen 2) Tablets	CW550-SR Plus ■	Broad Spectrum scale & corrosion inhibitor product. Designed for use in high Calcium/ LSI water systems that have the potential of Calcium HEDP deposits. High hardness/alkalinity. **With DTEA II bio-dispersant.**	Cooling towers, Fluid Coolers, and Evaporative Condensers	Controlled release via recirculating feeder.	20 ppm	20-30 ppm 5-15% outside the optimal range is okay.	2.2-3.0	8.0-9.2 **	86-129 ppb as PTSA 20 ppm = 86 ppb as PTSA	N/A	20 ppm = 2.0 ppm PO4 25 ppm = 2.5 ppm PO4 30 ppm = 3.1 ppm PO4	20 ppm = 7.3 ppm 25 ppm = 9.1 ppm 30 ppm = 10.9 ppm	20 ppm = 1.9 ppm BZT 25 ppm = 2.3 ppm BZT 30 ppm = 2.8 ppm BZT	PBTC, Polymer, BZT, PTSA, **DTEA II**	300-700 PPM**	250-600 PPM**
Smart Release Recirculating (Gen 2) Tablets	CW572-SR ■	Broad Spectrum scale and corrosion inhibitor product. Designed for use in systems with moderate silica (<250 ppm) that have the potential of Calcium HEDP deposits. Medium to high hardness and alkalinity and moderate (<250 ppm) silica.	Cooling towers, Fluid Coolers, and Evaporative Condensers	Controlled release via recirculating feeder.	25 ppm	25-35 ppm 5-15% outside the optimal range is okay.	2.2-3.0	8.0-9.2 **	38-53 ppb as PTSA 25 ppm = 38 ppb as PTSA	N/A	20 ppm = 2.0 ppm PO4 25 ppm = 2.5 ppm PO4 30 ppm = 3.1 ppm PO4	Contact Dober	25 ppm = 2.2 ppm HRA 30 ppm = 2.7 ppm HRA 35 ppm = 3.1 ppm HRA	PBTC, PTSA, Polymers, HRA,	300-700 PPM**	250-600 PPM**
Smart Release Recirculating (Gen 2) Tablets	CW551-SR ■	Broad Spectrum scale and corrosion inhibitor product. Designed for use in high LSI water applications, but can be used in lower LSI applications. High hardness and alkalinity.	Cooling towers, Fluid Coolers, and Evaporative Condensers	Controlled release via recirculating feeder.	20 ppm	20-30 ppm 5-15% outside the optimal range is okay.	2.0-2.8	8.0-9.0 **	33-49 ppb as PTSA 20 ppm = 33 ppb as PTSA	20 ppm = 6 drops 25 ppm = 8 drops 30 ppm = 10 drops	20 ppm = 3.8 ppm PO4 25 ppm = 4.7 ppm PO4 30 ppm = 5.7 ppm PO4	Contact Dober	20 ppm = 3.1 ppm HRA 25 ppm = 3.9 ppm HRA 30 ppm = 4.6 ppm HRA	PBTC, PTSA Polymers, HRA	10-600 PPM**	250-500 PPM**

■ 500 Series tablets are only for use in Smart Release Recirculating Feeders (SRG2r/SRG2e/SRG2sf). Use of these products in non-circulating SRT feeders, at the recommended dosage, may result in ineffective treatment levels.

▲ DTEA II® is a registered trademark of AMSA, Inc.®

* Products are designed to release over specified time period. Note that fluctuations in temperature, system load, changes in water type, and flow can alter the release period.

** Always test the Make Up water for phosphate and factor this amount concentrated in the recirculating water when determining tower levels. Refer to test procedures for further testing details. Also note, the Palintest doesn't always accurately pick up PBTC and may show a false low reading at times.

*** Always run an LSI or Calcite Saturation Ratio (French Creek) calculation to determine specific scaling indexes in order to verify the maximum cycles of concentration as well as maximum mineral level concentrations.

CLOSED LOOP PRODUCTS

	PRODUCT	USE CONDITIONS	APPLICATIONS	CONTROLLED RELEASE PERIOD*	TARGET DOSAGE	OPTIMAL DOSAGE RANGE	LSI	pH ***	PTSA TEST RANGE	PO4 TEST RANGE (PALINTEST)** Assume 0ppm in MU	EXPECTED PO4 RESIDUAL Assume Full Digestion	POLYMER TEST RANGE	ACTIVE AZOLE	ACTIVES	CALCIUM RANGE	ALKALINITY RANGE "M"
Powders / Closed Loop	CL001P	Nitrite-based fast releasing closed loop (powder).	Closed Loops	Immediate Release <24 Hours	1,600 ppm	800-3,200 ppm	N/A	N/A	N/A	N/A	1,600 ppm = 1,480 ppm as $NaNO_2$	N/A	1,600 ppm = 32 ppm as Azole	Polymer, Azole, Borate, Nitrate	<300 PPM	N/A
	CL001T	Nitrite-based fast releasing closed loop tablet.	Closed Loops	Immediate Release <24 Hours	1,600 ppm	800-3,200 ppm	N/A	N/A	N/A	N/A	1,600 ppm = 1,480 ppm as $NaNO_2$	N/A	1,600 ppm = 32 ppm as Azole	Polymer, Azole, Borate, Nitrate	<300 PPM	N/A
	CL001T Plus	Nitrite-based fast releasing closed loop tablet product with **DTEA II bio-dispersant.**	Closed Loops	Immediate Release <24 Hours	1,600 ppm	800-3,200 ppm	N/A	N/A	N/A	N/A	1,600 ppm = 1,480 ppm as $NaNO_2$	N/A	1,600 ppm = 32 ppm as Azole	Polymer, Azole, Borate, Nitrate, **DTEA II**	<300 PPM	N/A

BIOCIDES

PRODUCT	ACTIVES	USE CONDITIONS	APPLICATIONS	CONTROLLED RELEASE PERIOD*	OPTIMAL DOSAGE	TEST RANGE
BromiCide 1" Tablets	BCDMH (1-Bromo-3-Chloro-5, 5-dimethylhydantoin) – 96%	Broad spectrum bromine-based oxidizing biocide	Cooling Towers, Fluid Coolers, Evaporative Condensers	30-Day Release with SR Feeder and BMB**	3-50 ppm a.i. ***	2-15 ppm Total Chlorine (1 gpm)
BioClear	Granular DBNPA (2,2-dibromo-3-nitriloproprionamide) – 98%	Broad spectrum quick-kill non-oxidizing biocide	Cooling Towers, Fluid Coolers, Evaporative Condensers, Closed Loop	30-Day Release with SR Feeder**	2.4-8 ppm a.i.	0.5-5 ppm Total Bromine (1 gpm)

* Products are designed to release over specified time period. Note that fluctuations in temperature, system load, changes in water type, and flow can alter the release period.
** At 70-80 F water temperature, control flow rate at 1 gpm to get approximate 30 day continuous release. Higher flow rate or temperature will increase the release rate.
*** Dose to achieve 1 ppm residual Cl2 for fouled systems. Maintain a minimum 0.5 ppm residual Cl2 for most systems.

TEST METHODS	
Molybdate	Hach Method 8036
Nitrite	Hach Method 8153
Phosphate	Hach Method 8007
BZT / TT	Hach Method 8097
Total Chlorine	Hach Method 8167
Free Chlorine	Hach Method 8021
Bromine	Hach Method 8016
Phosphonate	AquaPhoenix Test Kit
Polymer	Applied Specialities Polyacrylic acid test kit #1 and #2, or equivalent PAA test kit
PTSA	Pyxis, Turner Design or equivalent handheld

Have a hard-to-reach cooling tower? Do chemicals come through your lobby or building?

ELIMINATE LIQUID CHEMISTRY

GO SOLID! HERE'S WHY:

SIMPLE

WATER IN, WATER OUT.

Supply tower water to feeder and back to tower. Small footprint required. No dosing pumps.

SAFER

FOR THE ENVIRONMENT AND YOUR EMPLOYEES.

No risks of liquid spills or splashes. No drum disposal. Non-hazardous inhibitor package per OSHA guidelines.

RELIABLE

PROVEN CHEMISTRIES

Used by thousands of locations throughout the world. Hospitals, universities, data centers, commercial buildings.

Smart Release technology offers a complete water treatment program for your water cooling needs. To learn more, please visit:

WWW.DOBER.COM/COOLING-TOWER-CHEMICALS/

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