

The logo for Smart Release Technology, featuring the words "smart" and "release" in a white, lowercase, sans-serif font, with "TECHNOLOGY" in a smaller, uppercase, sans-serif font below "release". A blue curved line graphic is positioned between "smart" and "release".

smart *release*
TECHNOLOGY

SIMPLE SAFER RELIABLE

SOLID-FEED WATER
TREATMENT SYSTEM

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COOLING TOWER WATER TREATMENT

A TOTAL SOLID-FEED TREATMENT SYSTEM



OXIDIZING BIOCIDES

Solid BCDMH used to control microbiological growth in the system.

NON-OXIDIZING BIOCIDES

Solid DBNPA used to control microbiological growth in the system.

CORROSION & SCALE CONTROL

Advanced chemistries formulated to control scale and corrosion.

EQUIPMENT

Complete your solid-feed water treatment system with equipment in different sizes that fit your needs.

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

SAFER FOR THE ENVIRONMENT, SAFER FOR YOUR EMPLOYEES.

- No risk of liquid spills or splashes
- No drum disposal
- Non-hazardous inhibitor package per OSHA guidelines
- Ergonomically friendly: packaging is easy to carry, even in difficult locations



RELIABLE

PROVEN CHEMISTRIES, VALIDATED APPLICATIONS.

- Used by thousands of locations throughout the world
- Hospitals, universities, data centers, commercial buildings, manufacturing facilities, and many more depend on Smart Release Technology®

*A clean supply water source is always recommended for BCDMH feeders.



LOWER CO₂

Smart Release products are delivered in recyclable cardboard boxes. Our high active concentration reduces shipping weight and our carbon footprint.



REDUCED WATER USAGE

Proper treatment allows for higher cycles of concentration. Smart Release lowers water usage by using proven chemistries.



REDUCE DISCHARGE OF HARMFUL CHEMICALS

Unlike liquid chemistries, which require additional chemistry to keep raw materials in solution, Smart Release contains at least 97% active as the ingredients. This eliminates the discharge of many harmful chemicals into the waterways.

CONVERT TO SOLIDS

IN THREE STEPS:

1

Determine the size of the system you need.

2

Select your chemistry.

3

Select your equipment.



Learn how Smart Release® Technology works at
www.dober.com/cooling-tower-chemicals

STEP 1

SELECT THE SIZE OF YOUR SYSTEM

Smart Release Technology uses concentrated chemistries that require fewer pounds of product per system than traditional liquids. Simply calculate the required pounds of each product and the corresponding feed equipment required based upon the cooling system's annual gallons of blowdown.

Use the table below or our product sheets to determine the estimated annual usage of each product based upon the system size.

ESTIMATED USAGE BY PRODUCT				
Gallons of Blowdown per Year	SRG1 Scale & Corrosion Inhibitor	SRG2 Scale & Corrosion Inhibitor*	Oxidizing Biocide Usage	Non-Oxidizing Biocide Usage
100,000	21 lbs	17 lbs	13 lbs	7 lbs
200,000	42 lbs	33 lbs	25 lbs	13 lbs
500,000	104 lbs	83 lbs	63 lbs	33 lbs
800,000	167 lbs	133 lbs	100 lbs	53 lbs
1,000,000	208 lbs	167 lbs	125 lbs	67 lbs
>1,000,000	Please consult with a Smart Release representative for proper sizing.			

*Based on 20ppm, some feed rates may vary, see below.

For more specific intermediate system sizes, use the following conversions to estimate annual chemical usage (SRG2r / SRG1)

- 0.8 lb / 1 lb Scale and Corrosion Inhibitors = 5,000 gallons of blowdown
- 1 lb Oxidizing Biocide = 7,500 gallons of blowdown
- 1 lb Non-Oxidizing Biocide = 15,000 gallons of blowdown

Size the system for peak monthly usage. Do this by dividing the total gallons of blowdown for this peak month by the amount of blowdown that is treated by 1 lb of chemistry. Then, select the feeders needed to accommodate the required chemical usage.

STEP 2

SELECT YOUR CHEMISTRY (SCALE & CORROSION)

SRG1 / SRG2 CHEMICAL PRODUCT SELECTION

PRODUCTS	CW211-SR	CW311-SR	CW350-SR
Water Type	Moderately Hard Water	Hard Water (Scaling)	Extremely Hard Water
LSI Range	LSI < 2.2	LSI 2.0 – 2.8	LSI 2.2 – 3.0
Chemistry	Polyphosphate Orthophosphate PBTC HEDP BZT Dual Polymer System PTSA	PBTC HEDP BZT Dual Polymer System PTSA	PBTC BZT Dual Polymer System PTSA
Dosing SRG2 or SRG1	20 ppm or 25 ppm	20 ppm or 25 ppm	20 ppm or 25 ppm
PTSA	29 ppb or 36 ppb	32 ppb or 40 ppb	86 ppb or 107 ppb
Packaging	25-lb box (10 2.5-lb bags)	25-lb box (10 2.5-lb bags)	25-lb box (10 2.5-lb bags)

STEP 2

SELECT YOUR CHEMISTRY (SCALE & CORROSION)

SRG2 ONLY – CHEMICAL PRODUCT SELECTION

Smart Release Gen-2 (SRG2) builds on the same proven coated-tablet chemistry platform pioneered with SRG1. By pairing tablet technology with smart sensor/controls integration, SRG2 enables precise, verifiable dosing, data-driven adjustments, and remote monitoring. The result is the consistency of SRG1 with the **control**, traceability, and optimization today's programs demand.

PRODUCTS	CW521-SR	CW511-SR	CW550-SR	CW551-SR	CW572-SR
Water Type	Low/Medium Hardness/Alkalinity	Moderate Hardness/Alkalinity	High Hardness/Alkalinity	Moderate Hardness/Alkalinity	High Hardness/Alkalinity Moderate Silica (<250ppm)
LSI Range	LSI <2.2	LSI 2.0 – 2.8	LSI 2.2 – 3.0	LSI 2.0 – 2.8	LSI 2.2 – 3.0
Chemistry	Polyphosphate Organophosphate PTBC HEDP BZT Dual Polymers PTSA	PTBC HEDP BZT Dual Polymers PTSA	PTBC BZT Dual Polymers PTSA	PTBC HEDP HRA Dual Polymers PTSA Polymer Tag	PTBC HRA Dual Polymers PTSA Polymer Tag
Dosing SRG2	20 ppm	20 ppm	20 ppm	20 ppm	25 ppm
PSTA	29 ppb	32 ppb	86 ppb	32 ppb	50 ppb
Packaging	25-lb box (10 2.5-lb bags)	25-lb box (10 2.5-lb bags)	25-lb box (10 2.5-lb bags)	25-lb box (10 2.5-lb bags)	25-lb box (10 2.5-lb bags)

STEP 2

SELECT YOUR CHEMISTRY (SCALE & CORROSION)

SRG2 PLUS – CHEMICAL PRODUCT SELECTION

Smart Release Plus tablets are enhanced with DTEA II®, adding bio-dispersion to our standard 500-series formulations.

PRODUCTS	CW521-SR-P	CW511-SR-P	CW550-SR-P
Water Type	Low/Medium Hardness/Alkalinity	Moderate Hardness/Alkalinity	High Hardness/Alkalinity
LSI Range	LSI < 2.2	LSI 2.0 – 2.8	LSI 2.2 – 3.0
Chemistry	Polyphosphate Orthophosphate PBTC HEDP BZT Dual Polymer System PTSA DTEA II	PBTC HEDP BZT Dual Polymer System PTSA DTEA II	PBTC BZT Dual Polymer System PTSA DTEA II
Dosing SRG2 Plus	20 ppm	20 ppm	20 ppm
PTSA	29 ppb	32 ppb	86 ppb
Packaging	25-lb box (10 2.5-lb bags)	25-lb box (10 2.5-lb bags)	25-lb box (10 2.5-lb bags)

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

STEP 2

SELECT YOUR CHEMISTRY (BIOCIDES)

We offer both oxidizing and non-oxidizing biocides to complete your water-treatment solution.

OXIDIZING BIOCIDES

BROMICIDE TABLETS

1-inch tablets (25 lb pail)



DESCRIPTION:

BromiCide is a broad-spectrum, bromine-based oxidizing biocide. BromiCide tablets are designed for effective microbiological control in open recirculating cooling water systems and industrial process waters. BromiCide tablets are used with the Smart Release brominator (ox-biocide feeder with biocide membrane basket or BMB). The 1" tablets contain Bromo-chloro-5,5-dimethylhydantoin packaged in a convenient 25lb pail. The dissolution rate is dependent on temperature and flow through the system.

BENEFITS:

- Broad spectrum kill for bacteria, algae, and fungi, all of which are unable to develop a tolerance.
- Reduces risk associated with waterborne pathogens, including Legionella.
- Easier handling than gas/liquid oxidizing biocides, reduced risk of chemical accidents and environmental exposure.
- Smart Release minimizes maintenance costs—no pumping required.
- Provides low-level continuous bromination.

NON-OXIDIZING BIOCIDES

SMART RELEASE BIO-CLEAR

12lb box (12 1lb canisters or 6 2lbs canisters)



DESCRIPTION:

Smart Release Bio-Clear is a broad spectrum, non-oxidizing biocide effective against a range of bacteria. The product contains a solid form of 2,2-Dibromo-3-nitrilopropionamide packaged in a Smart Release membrane canister. The product is designed for use in open recirculating cooling water systems.

BENEFITS:

- Smart Release minimizes maintenance costs—no pumping required.
- Smart Release containers reduce human exposure to chemicals.
- Controls biofilm and microbiological contamination.
- Reduces risk associated with waterborne pathogens.

STEP 3

SELECT YOUR EQUIPMENT (SRG1 SMART FEEDERS)

SRG1 SMART FEEDERS

Smart Release Feeders are used to feed both scale and corrosion inhibitors and biocides.

SPECIFICATIONS	5	10	15
Tablet Capacity	5 lbs	10 lbs	15 lbs
DBNPA Membrane Biocide Capacity	1 lb canister: 3 lbs 2 lb canister: 4 lbs	1 lb canister: 6 lbs 2 lb canister: 8 lbs	1 lb canister: 9 lbs 2 lb canister: 12 lbs
BCDMH Biocide Capacity	5 lb	10 lbs	15 lbs
Feeder Height	21 in	31 in	49 in
Basket Height	19 in	31 in	46 in
Feeder Width	11 in (including valve)		
Feeder Construction	PVC		
Basket Material	HDPE & UHMWPE		
Maximum Pressure	80 PSI at 130° F		
Recommended Flow	1-3 GPM		

Feeders can be purchased individually or as a pre-assembled skid.

STEP 3

SELECT YOUR EQUIPMENT (SRG1 FEEDERS)

SCALE & CORROSION TABLET AND NON-OXIDIZING BIOCIDES FEEDERS



5 LB
W00112



10 LB
W00086



15 LB
W00260

SMART RELEASE BROMINATORS (OXIDIZER)

80 psi pressure relief valve (PRV) included



5 LB
W00523



10 LB
W000524



15 LB
W00525

STEP 3

SELECT YOUR EQUIPMENT (SRG1 FEED SYSTEM)

SRG1 BASIC

10PB-10-10



Smart Release Generation 1 feed systems deliver proven simplicity for small to medium installations: a dependable 30-day release with no pumps or control valves required. The compact, water-in/water-out design installs quickly and works with virtually any water treatment controller, giving you steady program performance without the complexity. If you value ease of use, fast startup, and low maintenance, Gen-1 is the straightforward choice to protect your customers' assets.

Contact us to get started on your Smart Release journey.

STEP 3

SELECT YOUR EQUIPMENT (SRG2r FEEDERS)

SCALE & CORROSION TABLET AND NON-OXIDIZING BIOCID FEEDERS



15 LB FEEDER
W00683



30 LB FEEDER
W00684

SMART RELEASE BROMINATORS (OXIDIZER)

80 psi pressure relief valve (PRV) included



40 LB FEEDER
W00701



60 LB FEEDER
W00578

STEP 3

SELECT YOUR EQUIPMENT (SRG2r FEED SYSTEMS)

Smart Release Gen-2 (SRG2) builds on the same proven coated-tablet chemistry platform pioneered with SRG1. By pairing tablet technology with smart sensor/controls integration, SRG2 enables precise, verifiable dosing, data-driven adjustments, and remote monitoring. The result is the consistency of SRG1 with the **control**, traceability, and optimization today's programs demand.



SRG2r BASIC

40-15-30r



SRG2r PREMIUM

40-15-30r

Smart Release Generation 2 feed systems are available in multiple sizes and configurations to fit virtually any program—simple feeder, space-saving feeder skid, or a fully configured premium panel. Each system is engineered to reliably deliver the chemistry essential for scale, corrosion, and biofouling control, helping protect your customers' assets and uptime. With clean, modular design and plug-and-play integration, Dober makes it easy to design, deploy, and maintain a feed solution that just works. **Contact us to get started on your Smart Release journey.**

STEP 3

SELECT YOUR EQUIPMENT (SRG2e FEED SYSTEMS)

SRG2e FEED SYSTEM

Exchange-Type Vessels



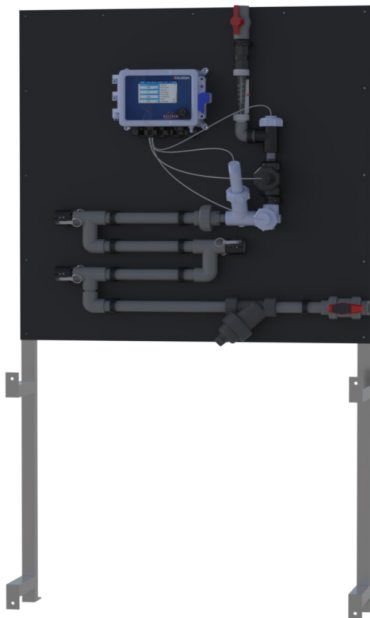
The **SRG2e** system employs the same release methodology as SRG2r but utilizes exchange-type vessels rather than fixed-in-place vessels. The combination of fixed-in-place recirculation and replaceable storage vessels allows for larger amounts of Smart Release product to be stored in the feeder.

STEP 3

(SRG1 / SRG2 PREMIUM ADD-ONS)

PREMIUM PANEL UPGRADES

For Smart Release Gen-1 and Gen-2



Elevate your water-in/water-out Smart Release systems with pre-engineered Premium Panel Upgrades. Start with our popular standard configurations or custom configure exactly what you need—from basic conductivity control to advanced instrumentation like PTSA, Tagged Polymer, ORP, and corrosion monitoring (Corrators).

Panels arrive pre-mounted to your Smart Release skid, cleanly wired for fast startup and reliable performance. While we recommend Walchem controllers, Smart Release® feeder systems are compatible with virtually any modern water treatment controller.

Contact us to learn more about Smart Release panel systems and upgrades.

STEP 3

SELECT YOUR EQUIPMENT (CONTROLLERS)

Dober can pre-install a **Walchem Controller** on both **Premium** and **Pod** panel systems. Available options include:



W100

Simple and reliable; provides conductivity control and includes a flow switch.



INTUITION-6

Flexible configuration with conductivity control, flow switch, and ORP sensor.

Optional: Pyxis ST-500 PTSA or Pyxis ST-588 PTSA/tagged polymer sensor, and pH sensor.



INTUITION-9

High-capacity controller offering flexible I/O capacity, conductivity control, flow switch, and ORP sensor.

Optional: Pyxis ST-500 PTSA or Pyxis ST-588 PTSA/tagged polymer sensor, pH sensor, and corrosion sensor.

CLOSED LOOP

CL Series products are designed for use as a closed cooling and heating loop system additive where a non-liquid treatment is desired. The CL Series products are designed to be applied in a closed-loop system pot feeder equipment.



CL001P

CL001P contains a formulation of sodium nitrite, borate pH buffer, yellow metal corrosion inhibitor and polymer dispersant. Product benefits include:

- Minimizes transportation and handling costs
- Eliminates drum disposal cost
- Controls system from fouling
- Minimizes corrosion in closed-loop systems with mixed metals



CL001T

CL001T contains a formulation of sodium nitrite, borate pH buffer, yellow metal corrosion inhibitor and polymer dispersant. Product benefits include:

- Minimizes transportation and handling costs
- Eliminates drum disposal cost
- Controls system from fouling
- Minimizes corrosion in closed-loop systems with mixed metals
- **Easy to handle, fast-dissolving tablets**
- **Use in existing bypass feeders**



CL001T PLUS

CL001T-Plus contains a formulation of sodium nitrite, borate pH buffer, yellow metal corrosion inhibitor and polymer dispersant. Product benefits include:

- Minimizes transportation and handling costs
- Eliminates drum disposal cost
- Controls system from fouling
- Minimizes corrosion in closed-loop systems with mixed metals
- **Easy to handle, fast-dissolving tablets**
- **Use in existing bypass feeders**
- **DTEA II bio-dispersant**

TO GET STARTED USING

SMART RELEASE SOLUTIONS

CONTACT YOUR

WATER TREATMENT SPECIALIST

OR VISIT

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



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