力普水片®

Leap Water Tabs

--*Sustainable Solid Water Treatment Solutions*



SIMPL

SAFE

RELIABLE

LOWER CHEMICALS

SAVE WATER

LOWER CO_2

辽宁力普工业技术有限公司
力 普 工 业 Liaoning Leap Industry Technology Co.,Ltd
Adders:No.8,Zhongke Street,shenfu Reform and Innovation Demonstration Zone,liaoning http://www.lnleap.com E-mail: lnleap@vip.126.com
Department：Leap Water Tabs Division Tel：86 24 56708810

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What Is Leap Water Tabs?

Leap tablets are water treatment chemical tablets with long-lasting slow-release functions. Leap tablets are manufactured by isolating, wrapping, release-controlling conventional water treatment chemicals and pressed into solid tablets with the high pressure production process and its proprietary CRT “controlled release technology). Each tablet can be effective for three to four weeks. Featuring a high content of active ingredient, non-liquid chemical, long-lasting and slow-release, reliable effect, and innovative Leap tablets provide a safer, more environmentally friendly, convenient and low-carbon sustainable solid water treatment solution.



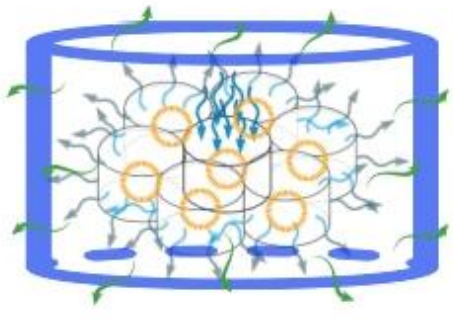
International leading long-lasting controlled release proprietary technology "CRT"

Controlled release chemistry generally refers to a science branch that allows chemicals to release in a certain place or specific environment within a desired period, mainly applied in the field of modern pharmaceutical preparation.

For instance,a drug can be insoluble in the stomach and release active ingredient in the intestine to act on the site of the disease.

Leap Industry's CRT technology combines the gel control technology, functional polymer controlled release technology, membrane block controlled technology, and ultra-fine power isolation technology, and realizes the multi-stage controlled release and release protection from monomer chemical micro-particles to tablets, and achieves the purpose of long-lasting release control of "Leap Water Tabs", with a slow release capacity of up to 3-4 weeks in water.

Leap Industry's proprietary long-lasting controlled release technology is advanced in its minimization functional additives for slow release and controlled release, free of invalid solvents and additives, and its product is highly concentrated, with more than 95% of active ingredients, which substantially reduces the ineffective cost of packaging, transportation, storage and use.



CRT Schematic diagram of multi-level controlled release technology model



2×11.2Kg “Leap water tabs”

110Kg “Liquid Chemicals”

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The value of Leap Water Tabs for you

Simple√

- No need for complex dosing equipment or dosing pump;
- It is only necessary to confirm the water of the system and calculate the needed dose;
- Adding (hanging) the tablets to the pool/dosing tank.
- Replacing or replenishing the tablets after three to four weeks.

Safe √

- Eliminating the risk of chemical release during transportation, storage and use;
- Avoiding the risk of overflow or splashing of liquid chemicals;
- Reducing the risk of chemical exposure during the operation;
- Avoiding the risk of exposure during on-site disposal and rinsing of drums.

Reliable√

- Based on conventional chemical treatment solutions, with mature technology;
- Continuous release of active ingredients to ensure the effect of water treatment;
- No need to worry about over/under dosage of chemicals or chemical spillage;

Economical√

- Highly concentrated solid, no cost on invalid solvents and additives;
- The transportation and handling cost is 70% to 80% lower than that of liquid chemicals;
- Minimizing service visit and service costs;

Environmentally friendly√

- Free of invalid solvents and additives, minimizing the emission of harmful chemicals;
- Improving water efficiency and reducing water consumption;
- No need for dosing pump, reducing energy consumption;
- High content of active ingredients, and 70% lower combined energy consumption for transportation, handling and storage than liquid products

Reducing carbon emissions√

- Carbon emission during cargo transportation reduces by 375Kg;
- Carbon emission of slow-release tablets without solvents and additives reduces by 750Kg;
- Carbon emission of packaging reduces by 500Kg;

The total carbon emission of solid slow-release tablets reduces by 1625kg when compared with that of liquid products.

(1000M^3/H circulating water system, the annual consumption of liquid products is about 4000KG, but it only needs 800kg solid slow-release tablets only 800KG, so carbon emission is compared on this basis)

The Products of Leap Water Tabs



Long-lasting Solid Corrosion and Scale Inhibition Tablets

CW - TAB



Water Treatment Slow Release Tablets

All in one - TAB



Antibacterial Sustained Release Tablets

Brom - TAB



Leap water tabs for water treatment

Feeder



Leap Cloud Control water Remote Controller

Controller

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CW-TAB Long-lasting Solid Corrosion and Scale Inhibition Tablets

Introduction to the product

CW-TAB are solid tablets manufactured by isolating, wrapping, release-controlling water treatment chemicals and pressing it into solid tablets with the high pressure production process and CRT "controlled release technology". Its formulation set contains ferrous metal corrosion inhibitor, non-ferrous metal corrosion inhibitor, scale inhibitor, dispersant, deposition inhibitors, etc. Different from liquid water treatment chemicals (the content of active matter is only 20%-30%), CW-TAB contains over 95% of active matters. When added into the system, each tablet (100g) can release active ingredients continuously for 3 to 4 weeks, to effectively control the corrosion and scaling of the cooling water system.

Product parameters

Item	CW-TAB I	CW-TAB II
Applicable water bodies (LSI index)	LSI <2	LSI 2.0 ~ 2.5
Appearance	White or grayish white	
Weight	100g/tablet	
Diameter	54mm	
Hieight	34mm	

Product features

- Special CRT slow release technology, continuous release of active ingredients for 3 to 4 weeks;
- 95% highly concentrated tablet, free of solvents, additives and invalid ingredients;
- Slow dissolution and release, no need for complicated dosing equipment and dosing pump;
- Integrating corrosion inhibitor, scale inhibitor, dispersant and deposition inhibitor, with guaranteed performance;
- Solid product, free of leakage and splash risk during transportation, storage and use;
- Nearly 100% active ingredients, the dosage is only 1/4 to 1/5 of liquid chemicals, on-site storage and easy to use;
- Non-hazardous chemicals, safe for transportation and management, and it can be delivered through ordinary express;
- Long-lasting slow release, minimizing service visit frequency and reducing service costs;
- Long-term mitigation, minimizing the frequency of service access and reducing service costs;
- Reducing carbon emissions.

Method of use

The recommended dosing concentration of CW-TAB is 20-25ppm (calculated on the basis of system sewage discharge volume). You may simply hang the tablets in the water distribution pan or water collection pan of the cooling tower and other places where the water will go through. The tablets will dissolve and release active ingredients slowly for up to three to four weeks, and then be replaced after complete dissolution.

Every 5 tablets of CW-TAB (500g) can help with the daily maintenance of a cooling water system (10~25RT) for three to four weeks, and the monthly dosage for a cooling water system of 100 RT is only 2~3 kg. For larger systems (300RT or more), a special Leap tablet dosing device can be used to achieve the automatic dosing of tablets.

Packaging and storage

Each set of 7 tablets is packed individually in a polyethylene tube bag or nylon mesh bags. Every 112 tablets (11.2kg) is sealed in a recyclable carton.

It has a shelf life of two years if stored in a ventilated and dry place below 40℃.



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All in one-TAB Water Treatment Slow Release Tablets

Introduction to the product

All-in-one Tab water treatment slow release tablets are solid tablets manufactured by isolating, wrapping, release-controlling water treatment chemicals and pressing it into solid tablets with the high pressure production process and CRT “controlled release technology”. Its formulation set contains ferrous metal corrosion inhibitor, non-ferrous metal corrosion inhibitor, scale inhibitor, dispersant deposition inhibitor, microbial control agent, with the effects of corrosion inhibition, scale inhibition and sterilization. All-in-one products have more than 95% active ingredients, which can continuously release active ingredients in the water for full treatment of cooling water systems.

Product features

- Integrating corrosion inhibitor, scale inhibitor, dispersant, deposition inhibitor, bactericide and algaecide, with guaranteed performance;
- Special CRT slow release technology, continuous release of active ingredients for 3 to 4 weeks;
- 95% highly concentrated tablet, free of solvents, additives and invalid ingredients;
- Slow dissolution and release, no need for complicated dosing equipment and dosing pump;
- Solid product, free of leakage and splash risk during transportation, storage and use;
- Nearly 100% active ingredients, the dosage is only 1/4 to 1/5 of liquid chemicals, on-site storage and easy to use;
- Non-hazardous chemicals, safe for transportation and management, and it can be delivered through ordinary express;
- Long-lasting slow release, minimizing service visit frequency and reducing service costs;
- Long-term mitigation, minimizing the frequency of service access and reducing service costs;
- Reducing carbon emissions.

Product parameters

Items	ALL-100	ALL-200
Applicable water bodies (LSI index)	LSI <2	LSI 2.0 ~ 2.5
Appearance	White or grayish white	
Weight	100g/tablet	
Diameter	54mm	
Height	32mm	

Method of use

The recommended dosing concentration of All-in-one Tab is 20-30ppm (calculated on the basis of system sewage discharge volume). You may simply hang the tablets in the water distribution pan or water collection pan of the cooling tower and other places where the water will go through. The tablets will dissolve and release active ingredients slowly for up to three to four weeks, and then be replaced after complete dissolution.

Every 5 tablets of All-in-one Tab (500g) can help with the daily maintenance of a cooling water system (10~25RT) for three to four weeks, and the monthly dosage for a cooling water system of 100 RT is only 2.5~3.5 kg. For larger systems (300RT or more), a special Leap tablet dosing device can be used to achieve the automatic dosing of tablets.

Packaging and storage

Each set of 7 tablets is packed individually in a polyethylene tube bag or nylon mesh bags. Every 96 tablets (11.2kg) is sealed in a recyclable carton.It has a shelf life of two years if stored in a ventilated and dry place below 40℃.



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Brom-TAB—Antibacterial Sustained Release Tablets

Introduction to the product

Brom-TAB antibacterial sustained release tablets are suitable for various forms of cooling towers, cooling pools, catch basins, etc. It is a tablet product with slow release of active ingredients, which can last for 3 to 4 weeks with a single dose, making the microbial control of water treatment more convenient and effective. The active ingredient of Brom-TAB, DBNPA, has a fast, efficient, broad-spectrum microbicidal efficacy, and is widely used for water treatment. The content of DBNPA in Brom-TAB is over 95%, and it is more efficient, convenient, secure and reliable than liquid products in transportation, handling, storage and use, with unique advantage in the microbial control of cooling tower.

Product parameters

Items	Technical indexes
Appearance	White or grayish white
Weight	100g/tablet
Diameter	54mm
Height	23mm

Product features

- Special CRT slow release technology, continuous release of active ingredients for 3 to 4 weeks;
- Long-lasting inhibition of the growth and reproduction of bacteria, fungi and algae in water bodies;
- Over 95% of active ingredients (DBNPA), free of solvents, additives and invalid ingredients;
- Each tablet (100g) can treat 4-6M^3conserved water system;
- No need for system modification or dosing pump, easy to use;
- Solid product, free of leakage and splash risk during transportation, storage and use;
- Long-lasting slow release, minimizing service visit frequency and reducing service costs.

Method of use

Each tablet (100g) of Brom-TAB can treat 4-6 m^3 (retained water volume) of cooling tower. Choose the corresponding number of “tablets” according to the actual water volume and place them in the special dosing device or in a net bag at an appropriate place in the cooling tower basin. It is usually effective for three to four weeks (according to the usage), and it can be renewed after complete dissolution.

Packaging and storage

Each set of 10 tablets is packed individually in polyethylene tube bags or nylon mesh bags, and 160 tablets (16Kg) is sealed and packed in a recyclable carton.

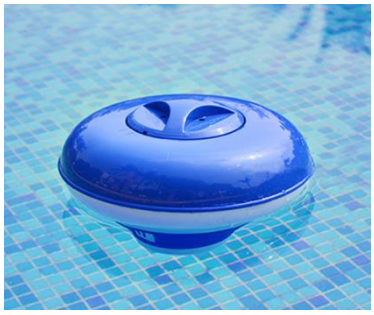
It has a shelf life of two years if stored in a ventilated and dry place below 40℃.



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Floating Feeder for Leap Water Tabs

Introduction to the product



Leap water tabs floating feeder is a simple dosing device used to purify the water body, and it is made of PVC material with chemical resistance. The upper of the dosing device is a ring-shaped cavity structure, which allows the floating of dosing device on the water; in the middle, it is a dosing tube for adding the solid corrosion inhibitor, scale inhibitor and bactericide tablet for purifying the water. The lower part of the dosing device has a flow adjustment port, which can be used to regulate the control of dosage.

Product features

- Integrated floating design, it will float on the water surface when used, which is simple and convenient;
- With a large tablet storage bin, and one dosing has a lasting effect, reducing the dosing frequency;
- The dosing speed and amount can be adjusted through the adjustment port, to meet the actual needs of the water system;
- Made of high quality PVC and PP material, durable and corrosion resistant;
- It can meet the use of all in one -TAB, CW -TAB, Brom -TAB and other common chlorine tablets, with a strong versatility.

Product parameters

Item	Specification		
	Small	Medium	Large
Diameter (cm)	13	17.8	22.5
Height (cm)	13.5	19.2	20
Filling capacity (tablet)	1- 2	2- 4	4- 6

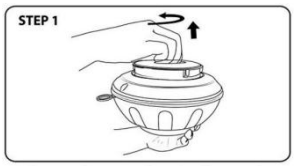
Application field

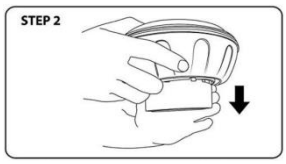
Leap water tabs floating feeder can be used for the dosing of solid corrosion inhibitor, scale inhibitor, bactericide and other water purification agents in various scenes, such as the cooling tower, cooling pool, landscape pool, fountain pool, swimming pool, water park, SPA pool, etc.

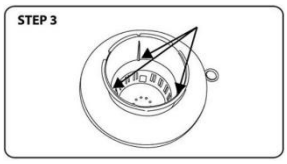
Method of use

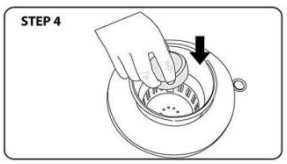
Open the lid of the upper part of the dosing device, add the tablets to the tube one by one, tighten the lid, adjust the dosing port according to the dosing amount, and place the dosing device in the water.

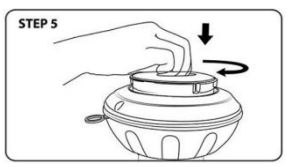
Refill the tablets after complete dissolution.

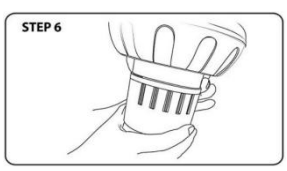












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Hanging Feeder for Leap Water Tabs

Introduction to the product

Leap water tabs hanging feeder is a skillfully-designed, easy-to-install and easy-to-use dosing device, used for adding solid corrosion inhibitor, scale inhibitor and bactericides of Leap Industry. It can be conveniently installed on the wall of cooling tower and catch basin; the tablets can be placed in the dosing barrel, with the lower part of the dosing barrel below the water surface, and the tablets will release active ingredients slowly under the action of water flow to purify the water. With Leap hanging dosing device and Leap tablets, you will be able to add the tablets on site every three to four weeks.



Product features

- Skillfully-designed, easy to install and use;
- The upper “tablets” will drop automatically when the lower “tablets” dissolve completely, which can realize the continuous dosing of tablets;
- The dosing speed and amount can be adjusted flexibly by adjusting the depth and angle of the dosing barrel in the water;
- Made of high-quality aluminum alloy and PVC, durable and corrosion resistant;
- It can meet the use of all in one-TAB, CW-TAB and Brom-TAB, with a strong versatility.

Product parameters

Item	Specification	
	Small	Large
Diameter (cm)	6	6
Length (cm)	50	70
Filling capacity (kg)	1- 2	2- 3

Application field

Leap water tabs hanging feeder is mainly used for the dosing of solid corrosion inhibitor, scale inhibitor and bactericide in small and medium-sized atmospheric cooling tower, closed cooling tower, cooling basin, landscape pool, fountain pool and other scenes.

Method of installation and use

Fix the “hanging rack” of the dosing device on the inducer slats in the lower part of the cooling tower or on the wall of the pool; insert the dosing barrel into the “hanging barrel”, adjust the angle and fasten the screws; adjust the depth of the dosing barrel in the water by adjusting the fixing rubber ring on the dosing barrel to control the dosing rate; add a certain amount of tablets in the dosing barrel and refill it after dissolution.

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Box-Type Feeder for Leap Water Tabs

Introduction to the product

Leap box type feeder is a special dosing device developed for Leap slow-release tablets. The dosing device can realize flexible adjustment of tablet release speed, online dosing, automatic replenishment of tablets, and maximize the service visit cycle. It can receive a better effect using the dosing device in a large-scale cooling water system (300-500RT).

The supporting “Leap cloud control” IOT remote control module can be loaded to realize fully automatic remote operation and management of water chemical treatment with Leap tablets.



专利产品，证书号：CN12506357

Product parameters

Parameter	Specification	
	BOX-08	BOX-12
Overall dimension (L×W×H)(mm)	300 x 200 x 450	230 x 200 x 550
Maximum dosage Kg	8	12
Number of dosing barrels	1-8	
Specification of inlet pipe	DN15	
Specification of outlet pipe	DN20	
Body material	PVC	

Product features

- Easy for installation, use, management and maintenance, convenient and reliable;
- Applicable to Leap corrosion inhibitor, bactericide and algaecide, PH regulator and other products;
- Small space occupation, no power requirement, no need for dosing pump;
- Stable tablet dosing, with flexible adjustment of dosing rate and amount;
- Automatic replenishment of tablets during the service cycle, maximum extension of service and visit cycle;
- The loaded supporting module can achieve fully automatic remote operation and management of chemical treatment for the cooling water system.

Method of installation and use

Choose an appropriate position on the wall, or upper cover of the pool, wall of the cooling tower, supply pipeline, etc. to hang or fix the dosing device, take a DN15 pipeline from the system and connect it to the inlet end of the dosing device and connect the outlet of the dosing device to the cooling water pool or water collection pan, open the inlet valve of the dosing device and put it into use.

Add a certain amount of tablets in the dosing barrel, adjust the number of tablets immersed in the water by adjusting the height of overflow port of the dosing device. The upper tablets will be immersed in the water automatically after the dissolution of tablets in the water, which can realize the continuous, stable and reliable dosage of tablets throughout the entire service visit cycle. When the cooling water stops running, the dosing device will be emptied to stop “dosing” for preventing the waste and overdosing of tablets.

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Y-Type Feeder for Leap Water Tabs

Introduction to the product

Leap Y-type feeder is a dosing device designed for small water supply/water system, used to dose Leap Industry's CWP-TAB series of products. It can be installed online in the water process pipeline, and release the active ingredients of tablets slowly and under control under the action of water flow. The release cycle of CWP-TAB lasts for 3 to 4 weeks, and the tablets can be refilled after dissolution.

The supporting "Leap cloud control" IOT remote control module can be loaded to realize fully automatic remote operation and management of water chemical treatment with Leap tablets.



Product features

- Online installation and use, not limited by system conditions;
- Energy saving: no need for dosing pump, no power consumption;
- Dosing adjustment through the valve, simple and convenient;
- No need for storage tank, no risk of chemical liquid leakage and splash;
- Controlled release of tablets, continuous and smooth dosing, and the remote control module can realize fully automatic remote operation and management.

Product parameters

Item	Specification	
	Small	Large
Diameter (cm)	12	15
Length (cm)	25	30
Filling capacity (kg)	1- 2	2- 3

Application field

Leap Y-type feeder is mainly used for the dosing of solid corrosion inhibitor, scale inhibitor and bactericide in small and medium-sized cooling towers, closed water systems, boiler feed water, condenser and other systems.

Method of installation and use

Put the dosing device at a suitable position in the system pipe, and control the dosing speed through regulating the inlet valve. Add the tablets in the dosing container, and refill it after complete dissolution.



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“Leap Cloud Control” IOT Water Treatment Remote Controller

Introduction to the module

“Leap Cloud Control” IOT remote control module is a remote control module developed according to the process characteristics of water treatment and technical requirements of chemical treatment based on IOT, cloud platform and intelligent control technology. “Leap Cloud Control” module allows the remote control and operation management of Leap tablet dosing device via mobile phone or computer. It has several control modes, such as immediate control, pre-set condition control, logic condition control, signal trigger control and AI intelligent control, as well as data recording, historical data query and multi-path signal alarm functions. With built-in IOT card and 4G mobile network platform, it can run without WIFI or network cable, and the installation and use will not be limited by on-site conditions. It is easy and convenient for you to manage the water treatment site reliably.



Control process and principle

“Leap Cloud Control” IOT remote control module controls the dosing device at the water treatment site or other water treatment operations through the Internet and cloud server, free from the distance limitation, for instance, you can control the “dosing device” in Shanghai while enjoying the coffee at a cafe in South Luogu Lane in Beijing; you can check the operation records of “water treatment system” in Guangzhou; you can set the automatic control parameters at the service site in Xiamen.



Function Configuration

Basic version	Intelligent version
Support Android/ iPhone App control and computer control	
Support alarm and historical data query	
Immediate control	Immediate control
Timing control	Timing control
Switch-triggered control	Switch-triggered control
Condition-triggered control	Condition-triggered control
	Analog signal AI intelligent control

Method of installation and use

Please visit http://www.lnleap.com or consult Leap Industry service engineers for the method of installation and use.