

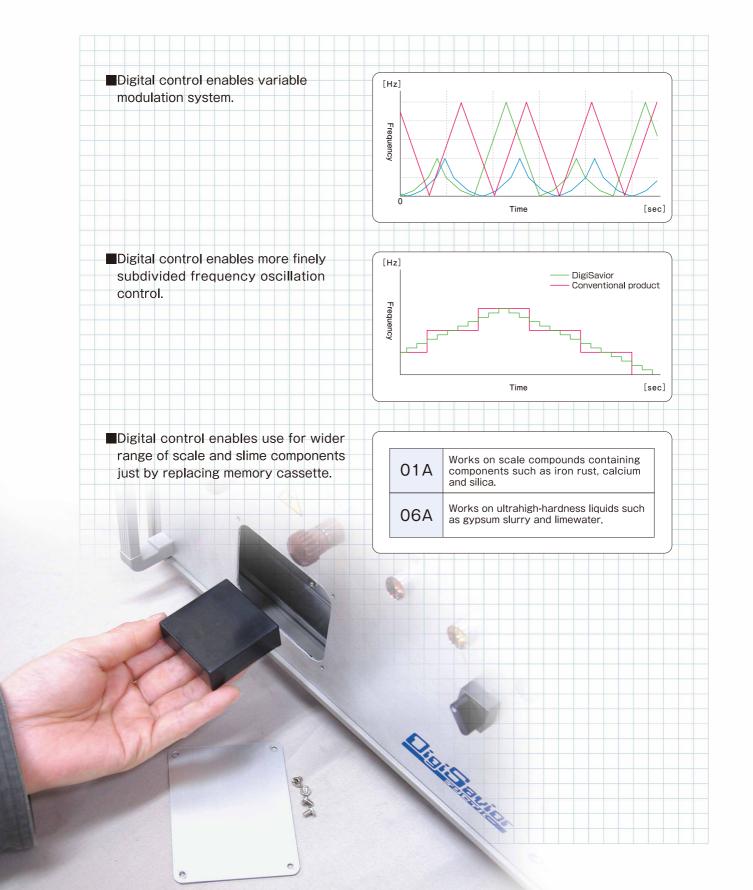






A magnetic field coil created just by wrapping the cable around the contaminated pipeline generates a dynamic magnetic field.

The electromagnetic field generated by DigiSavior's magnetic field coil is highly effective at removing scale deposits in pipelines or equipment, and at inhibiting deposits from forming. A groundbreaking digital control system enables variable-frequency modulation control to generate a dynamic magnetic field.



DIGISAVIOR STRENGTH

Ample power

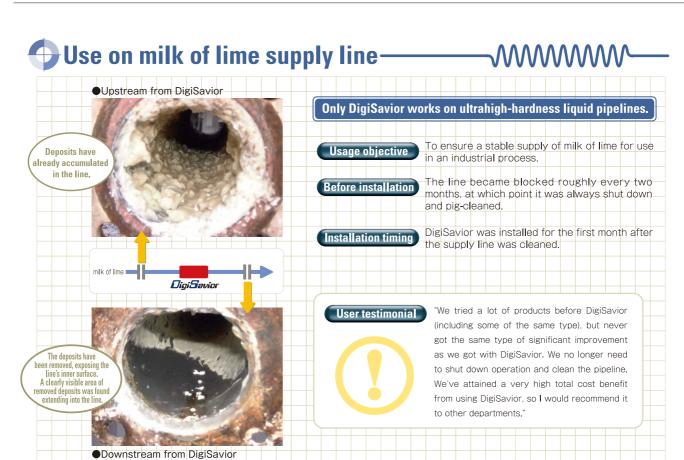
- ■Variable-size connection supports small- to large-bore pipelines (up to 600mm in diameter).
- ■A single DigiSavior unit can handle two 400mm pipelines of up to 3 meters in length.



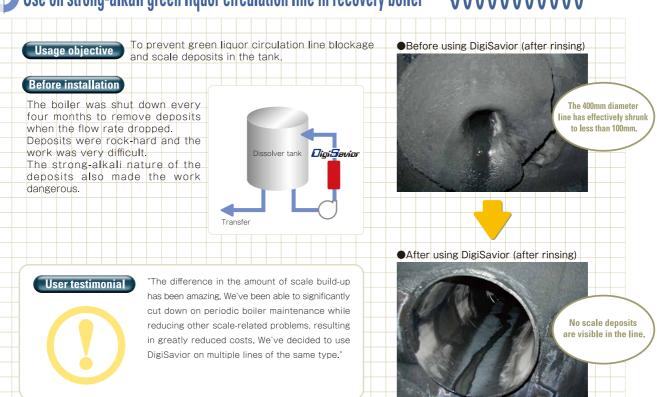
DIGISAVIOR STRENGTH

Peatures for worry-free operation Overcurrent prevention Operation light output terminal (same as power supply voltage) Stop light output terminal (same as power supply voltage) Easy maintenance (The cooling fan is the only consumable part.) Dustproof/rainproof case (option) (With operation light/error stop light)



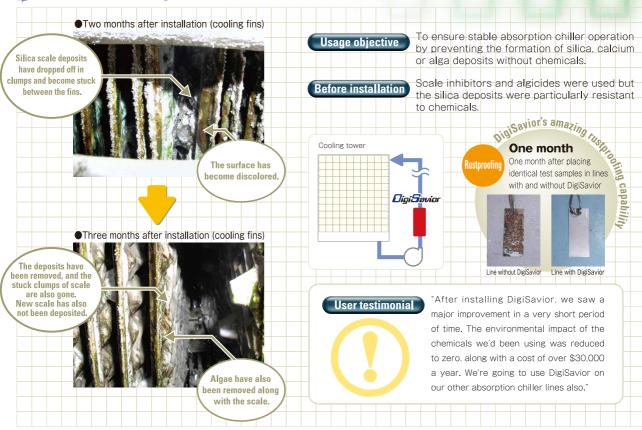


Use on strong-alkali green liquor circulation line in recovery boiler — MMMM





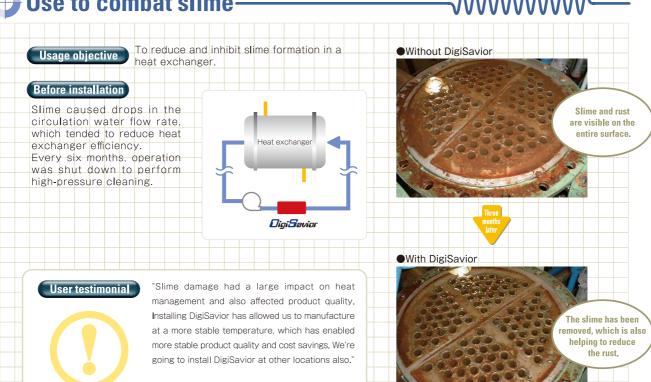
Use on absorption chiller cooling tower——— WWWW





Use to combat slime

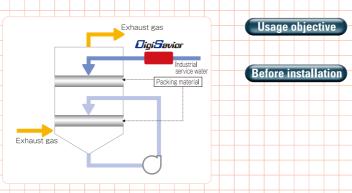
WWWWW





Use on exhaust gas scrubber-

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To prevent scale deposits in an exhaust gas scrubber, enabling a longer maintenance cycle and use of less supply water.

The packing material became blocked by scale roughly every month. The maintenance cycle had been extended by increasing the amount of supply water used to 7.5 times the normal amount. Similar types of descaling equipment were tested and found to be ineffective.

Inside of packed tower

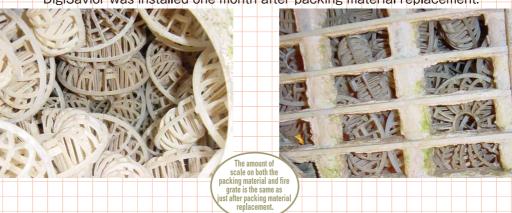
Fire grate

Previous state before using DigiSavior (4.5 months after replacing packing material)



Two months after installation

* DigiSavior was installed one month after packing material replacement.



User testimonial



"The benefits of installing DigiSavior have exceeded our expectations. We've found that DigiSavior not only prevents scale, it has also actually removed scale deposits from the tower and line. Next, we're going to use DigiSavior on our cooling water line."

Comparison of different descaling methods

		1	2	3	4	5	6	7
	Method	Chemicals	Permanent magnets	Treatments	Ceramics	Electrodes	Magnetic field coils	DigiSavior
_	Water quality adaptability	Δ	×	×	×	\triangle	\triangle	0
	Ultrahigh-hardness liquid compatibility	×	×	×	×	×	×	0
	Effectiveness	Δ	Δ	×	×	×	0	0
	Line size adaptability	0	×	Δ	×	×	Δ	0
	Installation work ease	Δ	Δ	0	×	×	0	0
	Maintenance ease	Δ	0	Δ	×	×	0	0
	Maintenance cost	×	0	×	Δ	×	0	0
	Cost-effectiveness	Δ	×	Δ	×	×	Δ	0

■Chemicals

Chemicals are the most common method of combating scale, but reportedly have little effect on silica deposits. Users struggle to find ways of cutting costs as the cost of the chemicals adds up. The environmental impact of the chemicals is another consideration, and regulations are starting to be imposed.

■Permanent magnets

Since permanent magnets exert a constant magnetic force, this method has frequently been reported to be ineffective when the magnets do not work well with a particular fluid. Externally mounted devices are easy to install but the line must be able to support their large weight, while devices that connect to the line require line alteration work. And since permanent magnet devices exert a strong magnetic force, they could potentially cause adverse health effects or interfere with pacemakers or other medical devices.

Treatments

Treatments are preparations dropped into a cooling tower or storage tank, that gradually dissolve to release chemicals or metal ions into the water. Treatments prevent bacterial growth, but their limited effectiveness requires use in large quantities and results in surprising amounts of materials consumed. Mounting costs are another drawback of this method, since the ion materials are expensive consumable components and there are labor costs incurred for packing the preparations.

■Ceramics

Scale or slime can somehow become deposited on the key ceramic components used in this method. The contaminated ceramic must be cleaned, but the parts are heavy and the work is reportedly difficult. Devices that connect to the line require line alteration work. Ceramics reportedly improve the taste of drinking water, but there are many difficulties in using them for industrial processes.

■Electrodes

Installing electrodes requires line alteration work. The electrodes are consumable parts, so this method incurs separate costs for buying expensive electrodes and for replacement work. There have reportedly been cases of electrolytic corrosion from contact between different types of metal.

■ Magnetic field coils

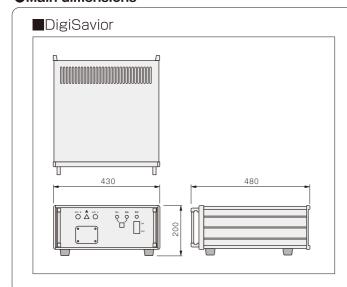
Magnetic field coils use the same method as DigiSavior, but are reportedly underpowered. Models for large-bore pipelines can be very expensive, while other models only support a single pipeline diameter and cannot be moved to lines of other diameters.

Performancel
Power!
Cost-effectiveness!

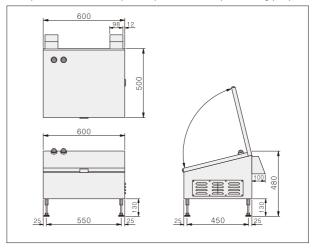
DigiSavior's groundbreaking digital control system gives it ample power to generate dynamic magnetic fields. DigiSavior combines a high level of effectiveness with operation ease unrivaled by any conventional descaling device. Beatrix's proprietary cutting-edge technology and manufacturing expertise have made it possible to provide DigiSavior for a lower cost than competitor devices, while its cost-effectiveness is attracting a lot of interest.



Main dimensions



■Optional case (dustproof/rainproof type)



Specifications

Product name	DigiSavior			
Supported pipeline dian	25 to 600 mm			
Fluid temperature range	0 to 100°C			
Electrical characteristics	Power supply	90 to 265 V, 50/60 Hz		
	Power consumption	300 VA		
Safety mechanisms		Overcurrent prevention		
		Error self-check function		
External output terminals	Operation check	Same as power supply voltag		
	Error stop	Same as power supply voltage		
Standard accessories		Magnetic field coil cable		
		Insulok cable ties		
		Crimp terminals		
		Insulating caps		
Option		Dustproof/rainproof case (With operation light/error stop light)		



SAFETY CAUTION

To ensure correct operation, be sure to read the operating instructions carefully before use.

Made in Japan: DigiSavior is an authentically Japanese-made scale and slime remover/inhibitor developed by Beatrix engineers. It enables worry-free use worldwide with its solid build quality, high durability and global power standard compatibility that supports even unstable power supplies.

- * Actual product colors vary slightly from the colors shown in this catalog due to photographic printing limitations.
- * Specifications and other product features may be changed without prior notice for product improvement or other reasons.



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