

MINI Watch-DOS[®]

Miniaturized Intelligent Dosing Unit

Most economical dosing solution with the best technology

THE DOSING UNIT

MINI Watch-DOS is a **patented** innovative and worlds' first dosing station completely miniaturized and compact possible to install even in narrowest and twisted spaces, which doses precisely, proportionally and safely **INSTANT I-SOFT[®] DW**, the food product for the protection of hydraulic circuits and heat exchangers against scale and corrosion.

MINI Watch-DOS is a volumetric dosing pump at mechanically functioning and does not require power supply. Moreover **MINI Watch-DOS**, equipped with the innovative under-vacuum flexible disposable container introduces main advantages:

- No external power supply required
- Easy and fast installation

APPLICATIONS

- Antiscalant dosing
- Corrosion Inhibition dosing
- Oxygen Scavenger dosing
- Biocides dosing
- SHP Disinfection dosing
- Flocculent dosing
- WLS Dosing



INSTANT DOSING BAGS

The unique **INSTANT** Dosing products are the latest invention of Watch. **MINI Watch-DOS** comes with the detachable **INSTANT Dosing bags**, that has **INSTANT** powder inside it. Customer can chose from a wide range of dosing products that covers all applications from drinking water, heat exchanger, boiler to cleaner and biocide products. All you need to do is put water inside the bag and the **INSTANT** powder is dissolved and ready to dose!

The **INSTANT** Dosing Bags are available in two versions that makes **500g** and **1000g** of prepared dosing solution.

Standard packaging: **20 bags in a box**

Mini Watch-DOS 1/2" and 3/4" fully integrated mechanically operated proportional dosing system.

Good bye to "installation space" problems!

THE BEST DOSING SOLUTION FOR ALL!

WATCH DOSING TECHNOLOGY

Leading Manufacturer of Dosing Solutions for Water Treatment

MINIATURIZED PROPORTIONAL DOSING SYSTEMS

MINI Watch-DOS

Operation

MINI Watch-DOS is a self-priming mechanical volumetric pump activated by the water flow and it does not need any electrical power supply. The pumping is operated by a turbine which transmits the movement to a special cam shaft enabling the liquid to rise from the tank to the injection valve where it is mixed with the water flow.

Innovations brought to you by WATCH[®]:

One of the main innovations of WATCH[®] is its innovative flexible **INSTANT DOSING BAGS** that comes with dry dosing powder. A new inventive way! A liquid anti-scaling refill which does not require any manipulation of chemicals: just replace the disposable flexible dosing bag when it is empty. Further, the flexible dosing bag can adapt to narrow and twisted spaces which would not permit the installation of any other equipment with rigid form. MINI Watch-DOS is endowed with a practical connection kit for the remote installation of the dosing bag (up to 50 cm far from the pump). Depending on needs two standard sizes of flexible INSTANT DOSING BAGS are available in 500 gram and 1000 gram dosing solution refill.

MINI Watch-DOS pump housing has been greatly reduced in size and the pumping system has been simplified. For its characteristics of easy handling and adaptability MINI Watch-DOS is particularly suitable for recessed boilers. MINI Watch-DOS is available in three different versions with 1/2" and 3/4" connections in order to satisfy any installation need for the treatment of the hot sanitary water.

MINI Watch-DOS Benefits



- Particularly suitable for recessed boilers.
- **INSTALLABLE** even in the **NARROWEST** and **TWISTED SPACES**, thanks to its compact size
- **ADJUSTABLE MOUNTING**: it works even if installed **UPSIDE- DOWN**
- **DISPOSABLE REFILL** of **DIFFERENT SIZES** available
- **REMOTE REFILL INSTALLATION** possibility thanks to the remote connecting kit which MINI Watch-DOS is equipped

Technical Data

	Unit	MIDOS4	MIDOS5
Connections		1/2"	1/2"
Minimum flow rate	m ³ /h	0,09	0,09
Nominal flow rate (DP=0.2 bar)	m ³ /h	1	1
Dosage	mg/l	2.0 ± 0.5	
Min-max water hardness	°f	5 - 30	
Max heating temperature	°C	60	
500 gr refill autonomy	m ³	20 - 22	
1000 gr refill autonomy	m ³	40 - 44	
Min-max water pressure	bar	1.5 - 6	
Min-max water temperature	°C	5 - 40	

WATCH DOSING TECHNOLOGY

Leading Manufacturer of Dosing Solutions for Water Treatment

MINI Watch-DOS

**Efficient
 Economical
 Eco-friendly**

Dosing System for WATCH[®] INSTANT 2013 Technology

Intended use and operation conditions

MINI Watch-DOS has been specifically designed for the dosage of **INSTANT I-SOFT[®]** in cold and hot sanitary water but it can be used also to protect: boilers (open loop hot water), hot water makers, cold water distribution lines, open loop cooling systems. MINI Watch-DOS could also be used to protect household appliances such as dishwashers, washing machines, coffee machines, etc.

Maintenance and duration

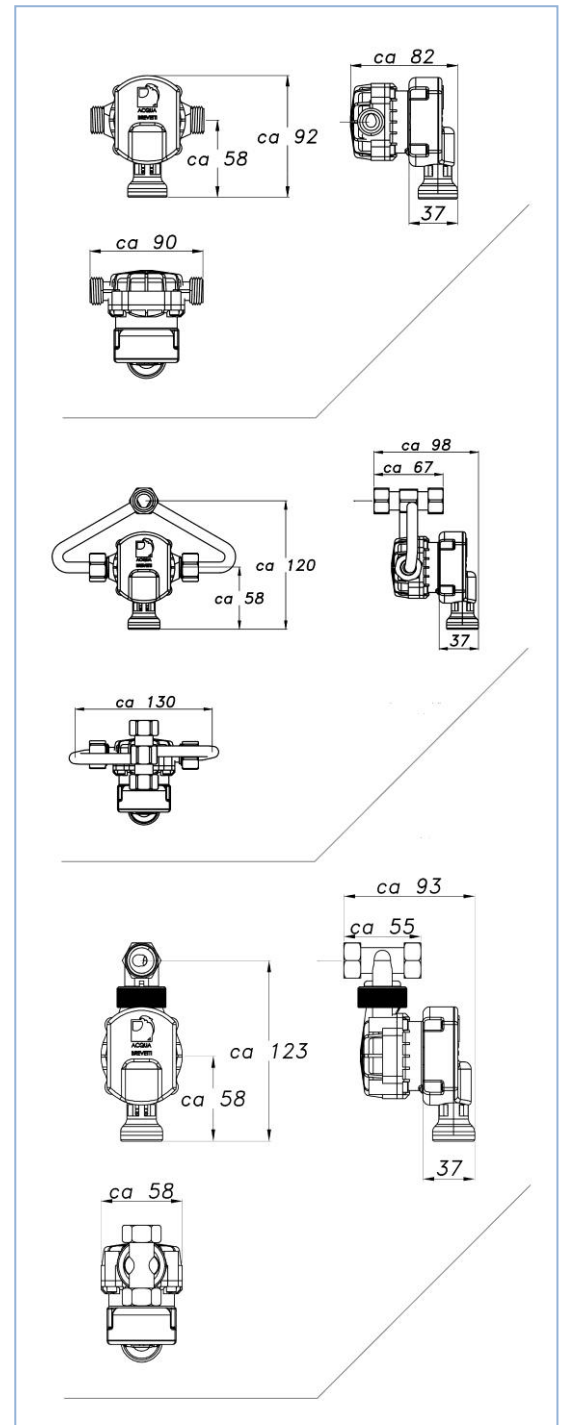
MINI Watch-DOS requires the periodical replacing of the disposable refill of **INSTANT I-SOFT[®]**. MINI Watch-DOS must be included in the periodic plan of cleaning and sanitization of the distribution system. Each time the system is sanitized it is also necessary to carry out the sanitization of MINI Watch-DOS. For a proper maintenance two annual inspections are recommended.

Installation

Install in agreement with local regulations. Install only in hygienically suitable places. MINI Watch-DOS should be installed in the cold water line upstream of the appliance (boiler, heat exchanger, etc.) to be protected. Do not install in the hot water line or downstream of the appliance to be protected. Install by-pass valves. Read the Installation Manual supplied with MINI Watch-DOS.

Warnings

Keep away from direct sunlight and frost. Read Performances and Technical Datasheet paragraph for operating limits. Follow the Instruction Manual. MINI Watch-DOS doses exclusively **INSTANT I-SOFT[®]**. Warranties on MINI Watch-DOS, its performances, the maintenance of drinking water standards immediately decay when any product other than **INSTANT I-SOFT[®]** is used. Do not install MINI Watch-DOS upstream of solar boilers. The high temperatures might affect the stability of INSTANT Dosing products.



WATCH DOSING TECHNOLOGY

Leading Manufacturer of Dosing Solutions for Water Treatment

INSTANT I-SOFT®

The most advanced and economical Dosing Solutions

INSTANT I-SOFT® Family

Watch® has invented the INSTANT 2013 Technology that brings a revolution in the dosing solution. In reality Watch offers a fully customizable problem selective solution.

MINI Watch-DOS can treat water flow rate of up to 1 m³/h with ½" connection and up to 2.5 m³/h with ¾" connection. The INSTANT Dosing Bags come with the product of your choice. One just need to fill up the bag with fresh water to dissolve the dry dosing powder inside, it comes with.

Chose your product:

Watch® offers a full range of dosing products that's customizable according to the dosing concentration and application point. The dosing product range of **INSTANT I-SOFT®** covers drinking water applications for scale prevention, corrosion inhibition and dispersant with problem specific treatment required for zinc pipe, copper pipe and Legionella protection. INSTANT I-SOFT family also has product range for Air-conditioner, Cooling Tower, Heat-Exchangers, Boilers and even Reverse Osmosis Systems. To complete the list Watch has also carefully developed cleaner product that can be used to remove scale and other fouling from inside walls of boilers, heat exchangers, membrane and water pipes.

Products		Application point	Brief Description	web link
Main	Addition			
INSTANT I-SOFT	DW	Drinking water	Scale & Corrosion inhibitor for all pipes.	
INSTANT I-SOFT	DB	Drinking water	Scale, corrosion & Legionella protection.	
INSTANT I-SOFT	DZ	Drinking water	Phosphate/Silicate scale & corrosion inhibitor for Zinc pipes.	
INSTANT I-SOFT	DC	Drinking water	Silicate corrosion inhibitor for Copper and Lead pipes.	
INSTANT I-SOFT	ON	Boiler water	Scale & Corrosion inhibitor with Non-volatile Oxygen scavengers . FDA approved multi-purpose Boiler Treatment.	
INSTANT I-SOFT	OV	Boiler water	Scale & Corrosion inhibitor with Non-volatile Oxygen scavengers . FDA approved multi-purpose Boiler Treatment.	
INSTANT I-SOFT	NB	Cooling water, Air Conditioners and Heat exchangers	Multi-functional Scale and Corrosion inhibitor with Dispersant and non-oxidizing biocide for high silica and sulfate content in feed water.	
INSTANT I-SOFT	OB	Cooling water, Air Conditioners and Heat exchangers	Multi-functional Scale and Corrosion inhibitor with Dispersant and oxidizing biocide for high silica and sulfate content in feed water.	
INSTANT I-SOFT	RO	Membrane treatment for sea water, Brackish water including concentrate recycle.	Guaranteed one dosage and all prevention of scaling & fouling, such as silica, sulfate including barium and strontium scales. No bio fouling.	
INSTANT I-SOFT	CLEAN	Household, Industrial, Commercial Hot Water boilers, All kind of low and high pressure boilers, Heat exchangers, Air conditioning equipment, cooling towers, swimming pools, all kinds of membranes like RO, NF and UF. Specially for sea water desalination plants.	Multi-purpose cleaner for lime scale and rust. Increases lifetime of production plants.	