

Drinking water treatment unit

Dosaphos

Anti scale and anti corrosion proportional dosing units



The water used in water systems contains a certain dissolved amount of calcium and magnesium salts making up the hardness. When water is heated, the hardness gives origin to a chemical reaction with the formation of calcium and magnesium carbonate (scale), and carbon dioxide. The calcium carbonate precipitates causing scale deposits on systems and heat exchangers, while the produced carbon dioxide has corrosive effects inside the system. It is therefore necessary to treat hard water by installing anti scale and anti corrosion appliances, like the proportional dosing units.

The dosing of products based on polyphosphates proportionally to water passage (< 5 ppm P2O5) does not alter the features of drinking water, keeping soluble the elements which otherwise would precipitate, causing scale formation and protecting against corrosion. The dosing units can be easily installed before the water system, before water heaters or boilers and before washing machines and dishwashers.

Dosaphos - Features

Dosaphos are anti scale and anti corrosion dosing units for boilers, water heaters, washing machines and dishwashers. The operation is based on the automatic and proportional dosing of the Gelphos product, with chelating and sequestering action, able to:

- prevent calcium and magnesium deposits (no scale);
- form a protection film inside pipes (no corrosion).

Thanks to the adjustable connection flange between the venturi system and the dosing body, Dosaphos units can be installed on horizontal and vertical pipes. Dosaphos units can be easily installed in the tight spaces between the wall and the boiler thanks to the special Dima

fittings.

Dosaphos 250 and Dosaphos Dima are fitted with the Acqua-stop device, which avoids to build the cut out bypass of the system and allows to replace the Gelphos Rapid refill without closing water supply.

Dosaphos units are made of chromium plated brass and plastic materials for potable use. A Gelphos Rapid refill is included in the pack.

Dosaphos - Installation

- The Venturi fitting shall be installed in such a way that the water flow follows the direction of the arrow.
- If water pressure is above 10 bar, it is necessary to install a pressure reducer before the dosing unit.
- Check that during installation pipes are without any working shavings or any other foreign bodies.
- Gelphos Rapid refills must be stored in a dry place, away from direct sunrays and heat sources.
- Before fitting a new Gelphos Rapid refill, remove the closure plug at least 1 or 2 days before use.

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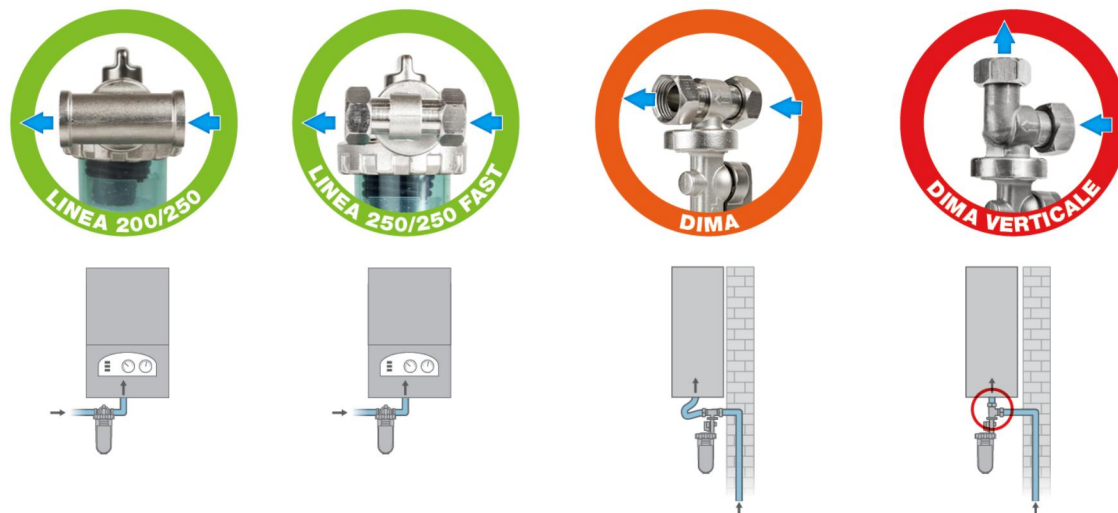
Technical Specifications

ITEM	ITEM CODE	CONNECT.	MATERIAL (head/housing)	DIMENS. (l x h)	MAX PRESS.	MAX DOSAGE	FLOW RATE ($\Delta P = 0,2$ bar)	BUILT IN BYPASS	USE
105.010.60	Dosaphos 200 $\frac{1}{2}$ "	$\frac{1}{2}$ " - $\frac{1}{2}$ " F	Brass/SAN	6x14 cm	10 bar	4 ppm (mg/l)	2 m ³ /h	No	tec/pot
105.010.70	Dosaphos 200 Fast $\frac{1}{2}$ "	$\frac{1}{2}$ " - $\frac{1}{2}$ " F	Brass/SAN	4x14 cm	10 bar	4 ppm (mg/l)	2 m ³ /h	No	tec/pot
105.030.80	Dosaphos 250 $\frac{1}{2}$ "	$\frac{1}{2}$ " - $\frac{1}{2}$ " F	Brass/SAN	6x15 cm	10 bar	4 ppm (mg/l)	2 m ³ /h	Yes	tec/pot
105.030.90	Dosaphos 250 Fast $\frac{1}{2}$ "	$\frac{1}{2}$ " - $\frac{1}{2}$ " F	Brass/SAN	4x15 cm	10 bar	4 ppm (mg/l)	2 m ³ /h	Yes	tec/pot
105.050.75	Dosaphos Dima $\frac{1}{2}$ "	$\frac{1}{2}$ " - $\frac{1}{2}$ " F	Brass/SAN	4x19,5 cm	10 bar	4 ppm (mg/l)	1,5 m ³ /h	Yes	tec/pot
105.050.95	Dosaphos Vertical Dima $\frac{1}{2}$ "	$\frac{1}{2}$ " - $\frac{1}{2}$ " F	Brass/SAN		10 bar	4 ppm (mg/l)	1,5 m ³ /h	Yes	tec/pot

Refills

ITEM CODE	ITEM
107.011.60	Gelphos Rapid - Pack of 8 ready-for-use stick refills

Installations



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Description for quotations

Dosaphos. Supply and installation of the GEL Dosaphos hydrodynamic proportional dosing unit, designed for the automatic dosing of the Gelphos Rapid anti scale anti corrosion product based on food polyphosphates, in compliance with the regulations in force. Supply consists of:

- Body in brass and housing in san
- Cut-out bypass (in models 250, 250 Fast, Dima and Vertical Dima)
- Adjustable connections
- 1 x Gelphos Rapid refill
- Small wrench
- User's manual

GELPHOS RAPID

Refills for dosing unit



Description

Gelphos Rapid is a powder mixture used in water systems, with anti-scaling and anticorrosive action for potable and general uses. The product prevents the formation of scale deposits up to a temperature of 65°C and of 70°C on copper pipe. It carries out anticorrosive action by forming a protective film that prevents direct contact of the water with the pipe metal.

How to use

Gelphos Rapid is used with metering pumps DOSAPHOS 200 – 250 – DIMA.

The Gelphos Rapid refill is introduced into the dosing unit vessel after having detached it from the stick and removed the protective cap.

Storage Store the product in a dry area and protected from cold, following the instructions for the storage of food products. Store away from the reach of children.

Warning The product must be used in metering pumps of the DOSAPHOS series to guarantee potability according to the limits established by DPR 236 of 24/05/1988.

Packaging

Box containing 2 sticks of 4 refills of 80 g each
Product Code 10701160

ADVANTAGES

- **Product suitable in food industry**
- **Antiscaling and anticorrosive action**
- **Supplied with label showing quality - quantity composition of the product and its range of use**
- **Ready to use**

