# Dossisol One Mini

## Sulfur dioxide dosage

## INTRODUCTION

The use of sulfur dioxide ($SO_2$) in oenology is due to the beneficial effects it offers, among them: it is an antioxidant since it captures oxygen and prevents oxidation of the must or wine, it is an antioxidant destroying oxidases and therefore preventing cracking, and it is antimicrobial exerting an inhibitory activity on yeasts, lactic acid bacteria and acetic acid bacteria.

## FEATURES

DOSSISOL ONE MINI is designed for use by sulfur dioxide consumers:

- Wine racking.
- Sulfur musts.
- High speed requirements for $SO_2$ addition.

The system is based on the dosing of $SO_2$ by pressurization with $N_2$ and weight measurement with load cells, achieving the exact dosing requested by the user.

The emptying of the $SO_2$ canister is performed at the dosing speed chosen by the user, resulting in a good canister cleaning.

The high dosing speed reduces product treatment times. Adjustable speed between 0.5 and 100 kg/h. Dosing accuracy 100 gr. Dosing is carried out with $SO_2$ in liquid form without producing annoying or harmful odors and vapors for people and the environment.

**The dispenser has its own user-refillable $SO_2$ buffer tank.**

## CONSTRUCTION ASPECTS

- Fully hermetic stainless steel construction.
- Impact-protected and watertight f o r outdoor use.
- Equipped with check valve to prevent backflows.
- Mounted on a compact transport platform.
- Electrical panel:
  - PLC.
  - Touch screen.
  - Weight controller.

| WEIGHT [kg] | LENGTH [cm] | HEIGHT [cm] | WIDTH [cm] |
|---|---|---|---|
| 65 | 150 | 135 | 66 |

## WORKING MODE

### Dosing in pipeline or unloader:

- Direct injection of pure $SO_2$ into the slurry pipeline or unloader, achieving rapid homogenization of slurry and $SO_2$.
- Knowing the flow rate of the paste pump and the dose of $SO_2$ to be added, the flow rate of the DOSSISOL ONE MINI will be adjusted to inject the exact amount of $SO_2$.
- The dosing flow rate of the DOSSISOL ONE MINI is in phase with the paste pump, so that the unit only operates when the paste pump is running.

### Tank dosing:

- Addition of $SO_2$ in the tank by programming the number of kilograms to be dosed and the desired flow rate.
- After dosing, the equipment will stop automatically.



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