



Foamatron – low pressure foam generator.



The Foamatron low pressure foam generator is designed primarily for cleaning and sanitizing transport and food processing facilities. It can be used wherever foam cleaning is necessary e.g. in agricultural, horticultural or solar panel cleaning applications.

The Foamatron is a low pressure (tap water) cleaning system which is made for automatic dosing of water with a chemical. It transforms the mixture automatically to a superb foam. The Foamatron doesn't need electricity, it requires only water pressure, compressed air and a chemical agent.

With the Foamatron, all parameters such as energy, time, chemistry and temperature are in balance. When this occurs you achieve maximum results, with minimal consumption of water and energy.

This means not only a $\pm 50\%$ reduction of water consumption but also a $\pm 10\%$ lower temperature used in production. Thanks to a correct use of pressure and flow in the system, these savings are obtained without compromising on performance or quality.

How does it work?

Hydraulic dosing is a solution for liquid to liquid precision dosing and mixing issues:

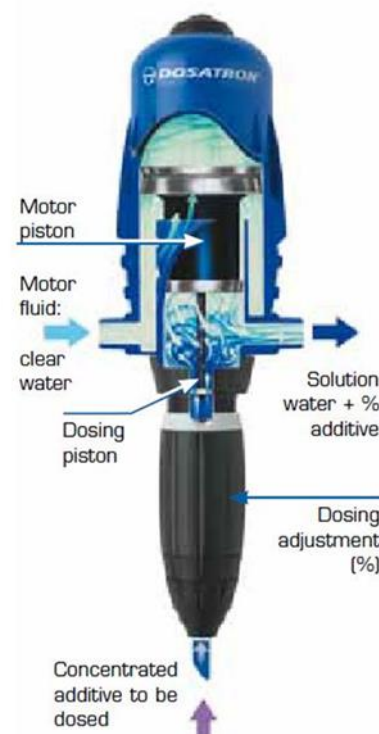
The Dosanova water powered dosing pump is a simple and ingenious system that has demonstrated its value since many decades in about a hundred countries.

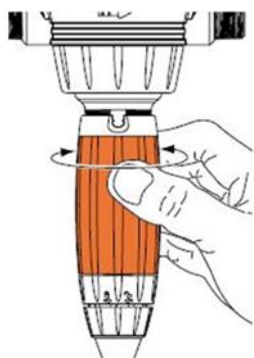
Installed directly in the water supply line, the pump operates without electricity ; it uses the flow of water as the power source. The water activates the pump, which takes up the required percentage of concentrate and injects it into the water. Inside the Dosatron, the concentrate is mixed with the water, and the water pressure forces the solution downstream.

Once adjusted, the dispenser requires no action or external control.

The dose of concentrate will be directly proportional to the volume of water entering the Dosatron, regardless of variations in flow and pressure which may occur in the main line.

The high dosing precision eliminates all risks of overdosing, thus contributing to respecting the environment.





Proportional injection externally adjustable

The injection rate is set by lining up the eye with the desired ratio on the scale.
The amount of injected concentrate is proportional to the amount of water coming into the Dosatron:
i.e. adjustment at 1% = 1 :100
= 1 volume of concentrate + 100 volumes of water.

Technology which is 100 %

Proportional
Non electric
Independent and precise
User-friendly
Installation and maintenance-
friendly
Environment-respecting

Foamatron chemical seal versions:

Version E: for users in food plants and kitchens there is a very hygienic unit available. The Foamatron is built in a stainless steel cabinet with sloped top cover.

Version VF: with Viton seal recommended for acids.

Version AF: with seals recommended for alkaline concentrates.

Version PVDF: housing for highly concentrated acids.

Version M: in mobile version on stainless steel trolley

Chemical capability and Dosing range Foamatron series

| Reference | Description | Dosage range |
|----------------|------------------------------|--------------|
| 100.147X5VF | Foamatron - VF Seal | 1 - 5 % |
| 100.147X5AF | Foamatron - AF seal | 1 - 5% |
| 100.147X5PVDF | Foamatron PVDF body - K seal | 1 - 5% |
| 100.147X5AFM | Foamatron Mobile - AF seal | 1 - 5% |
| 100.147X5AFE | Foamatron - in cabinet | 1 - 5% |
| 100.147X10VF | Foamatron - VF Seal | 1 - 10% |
| 100.147X10AF | Foamatron - AF seal | 1 - 10% |
| 100.147X10PVDF | Foamatron PVDF body - K seal | 1 - 10% |
| 100.147X10AFM | Foamatron Mobile - AF seal | 1 - 10% |
| 100.147X10E | Foamatron - in cabinet | 1 - 10% |

| Technical specifications | |
|---------------------------|-------------------------|
| Inlet water connection | 3/4"F |
| Required water pressure | 2 - 6 bar |
| Allowed water temperature | 5 - 38°C |
| Air inlet connection | 1/4"F |
| Required air pressure | 3 - 6 bar |
| Basic functions | Foam cleaning |
| Chemical injector type | Hydraulic injector |
| Dosing ratio | 1 - 5% or 1 - 10% |
| Materials | Stainless steel –PP-POM |



Version E – Built in stainless steel cabinet:



Foamatron wall mounted version for high care zones.

Consists of:

- Foamatron AF/VF version 5 or 10% dosing version.
- Air regulator kit.
- Stainless steel cabinet with sloop roof.

Options:

- Dosing pumps with Kalrez seals if multi chemical is used (Acids / Base).
- Dynamic foam head for air free foaming.

Version M - Mobile Foamatron:



Foamatron Mobile is available and consists of:

- Stainless steel heavy duty trolley.
- Container support 2 x 25liter.
- The integrated Foamatron unit (AF or VF seals)
- Air regulator kit.
- Automatic stainless steel hose reel.
- 20 meter DN12 Foodjet FDA approved wash-down hose.
- Ball valve with foam lance.

Options:

- Foam and rinse (FR) version.
- Second 20 meter automatic hose reel for clear water rinse.
- Extra-long hose reel.
- Dosing pumps with Kalrez seals if multi chemical is used (Acids / Base).
- Dosing pump with PTFE housing for extreme chemicals.
- Dynamic foam head for air free foaming.

Foamatron mobile with double automatic hose reel.



Foamatron with 40 meter DN19 hose reel and high flow foam lance.






Dosing pump with PTFE housing for extreme chemical resistant.








Accessories:

This is a selection of the most common accessories, others are available on request.

| | | |
|---|---|---|
| High flow Foam lance with stainless steel ball valve -350lpm nozzle | 20 meter Foodflex hose | 2 meter Foodflex hose (connection from Foamatron to hose reel) |
|  |  |  |
| Ref. 140.184 | Ref. 30350X20 | Ref. 30350X2 |

| | | |
|--|---|---|
| Automatic hose reel for 20 m hose | Swivel bracket for hose reel | Container holder for 1x25L. |
|  |  |  |
| Ref. 260.HR1100 | Ref. 260.ST20 | Ref. 270.100 |

FOAMATRON Air free foaming

Foamatron units are able to foam air-free.

For this application the dynamic Low pressure (2-6bar) foam head is required.



Quick connecting dynamic foam head.



Quick connection for rinse nozzle.

