

# SIMONIZ®

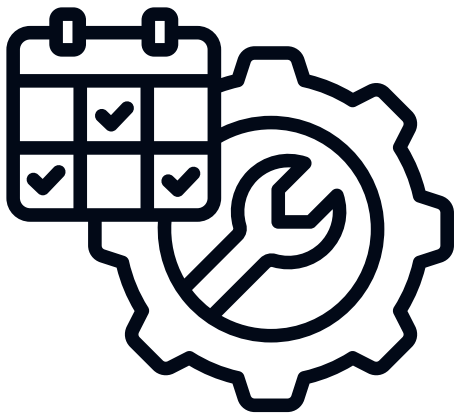


# CRS

CHEMICAL REDUCTION SOLUTIONS

## Nanobubble **water conditioning** for Chemical Panels.

Drier Cars. Enhanced Chemistry. Reduced Maintenance.



### Car Wash Water Is Working Against You

Mineral scale, poor water behavior, and inefficient chemistry reduce wash quality, reduce chemical performance, create maintenance headaches, and limit throughput

All this adds cost and labor expense to any car wash business



### Simoniz® Solution

Simoniz® installs a patent-pending, passive nanobubble generator inline on key car wash water lines. Using hydrodynamic cavitation and electro-ionization, the system continuously conditions water before it reaches RO machines, chemistry injectors, manifolds, and rinse stages

### Key Benefits



- Improved chemical effectiveness & coverage
- Better rinse performance & spot-free drying
- Less scale buildup in plumbing, injectors, and RO systems
- Improved efficiency and reliability
- Extended equipment life
- Less algae growth in bays
- No electricity or consumables

Connect with  
Simoniz® and  
CRS

[www.simoniz.com](http://www.simoniz.com)

[www.chemicalreduction.com](http://www.chemicalreduction.com)

BETTER WATER. BETTER EQUIPMENT. BETTER ECONOMICS.

# SIMONIZ®



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CHEMICAL REDUCTION SOLUTIONS

WHAT IS A  
NANOBUBBLE?



**Tiny. Stable. Game Changing.**

2500 times smaller than a grain of sand, nanobubbles are so small that they have a lower buoyancy and will remain suspended in water for a long time

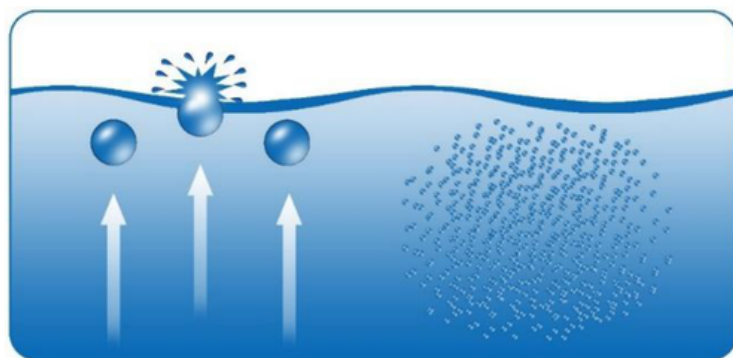


**Industrially Useful**

Nanobubbles are useful in removing and preventing scale and biofilm growth, improving heat transfer, inhibiting rust, reducing surface tension and improving filtration efficacy

## We are the **future** of your business

CRS and Simoniz® are on a mission to use their economical and simple nanobubble generator to improve profitability and reliability of water systems



nanobubbles remain suspended in water

## 575+

NANOBUBBLIZERS®  
DEPLOYED IN 2025

MORE THAN

## 15 years

OF NANOBUBBLE  
EXPERIENCE

## 500+ million

GALLONS OF WATER  
TREATED PER MONTH



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## HOW ARE NANO BUBBLES FORMED?



### Hydrodynamic Cavitation

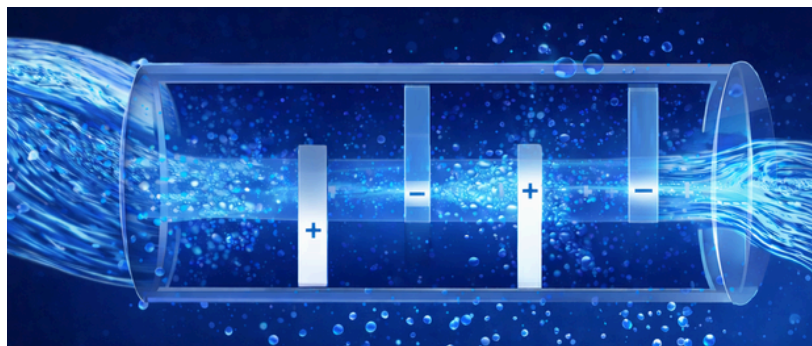
As water flows through the NanoBubbler®, the internal geometry creates localized pressure differentials and high shear zones. Under appropriate flow conditions, these effects induce controlled hydrodynamic cavitation



### Ionization of Entrained Gas

Nanobubbles are formed under more lenient flow conditions when the gases that are entrained in water are ionized or charged by the NanoBubbler's® proprietary metal alloy baffles

## Hydrodynamic cavitation **plus** entrained gas ionization



Hydrodynamic cavitation is a well-documented physical phenomenon in which microscopic vapor- or gas-filled cavities form and collapse due to transient pressure reductions in a moving liquid. In the NanoBubbler®, this process also results in the formation of stable micro- and nanobubbles

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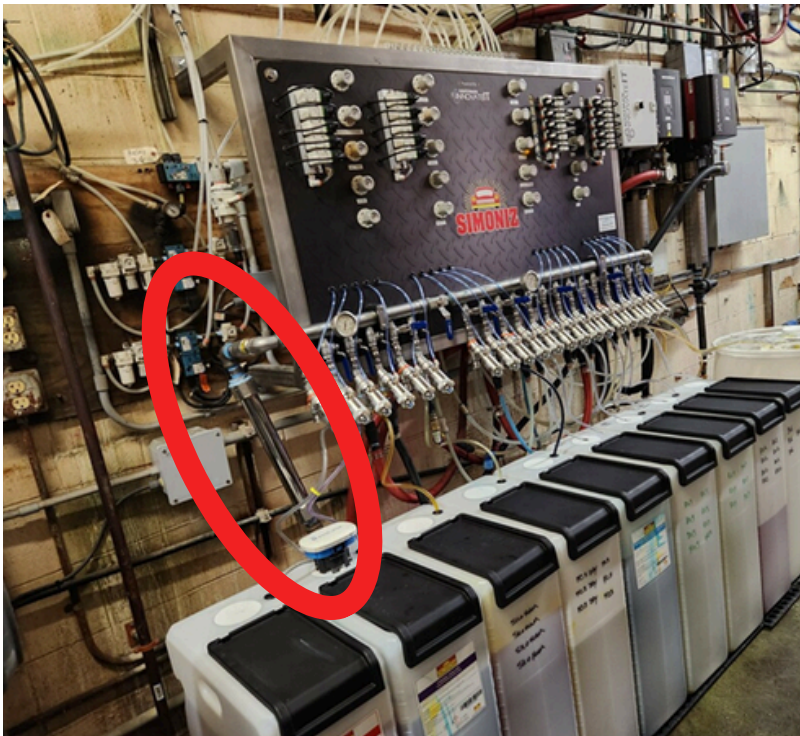
# NANOBUBBLIZER® ON DISPENSIT®

## Hoffman DispensIT Installation Instructions

### APPLICATIONS

- Suitable for all Hoffman DispensIT® Panels
- Infuses feedwater with nanobubbles
- Enhances foaming performance and coverage of car wash chemistry
- No power, no programming, no maintenance required
- Can flow in either direction

### IMPORTANT INSTALL LOCATION



### BENEFITS FOR OPERATORS

- Higher Wash Quality
- Better Drying Performance
- Enhanced Coverage and Foaming Action
- Long-Term Equipment Protection
- Reduced Algae Growth in the Bay

# SIMONIZ®

### ✕ INSTALLATION STEPS

01

**Shut Off Water Supply**  
and relieve pressure by  
opening a downstream fitting

02

**Disconnect the water line to  
the Grundfos pump**

03

**Install NAN1020 (5HP  
Pump) or NAN2040 (7.5HP  
Pump) inline on Grundfos  
Discharge**

04

**Restore Water Supply**

05

**Check for Leaks**

06

**Flush and Return to Service**  
If machine is badly scaled a good  
flush should be done before re-using

### THREAD SEALANT REQUIREMENT

- Use Loctite 55 cord
- Apply to all NPT threads
- Do not use excessive sealant



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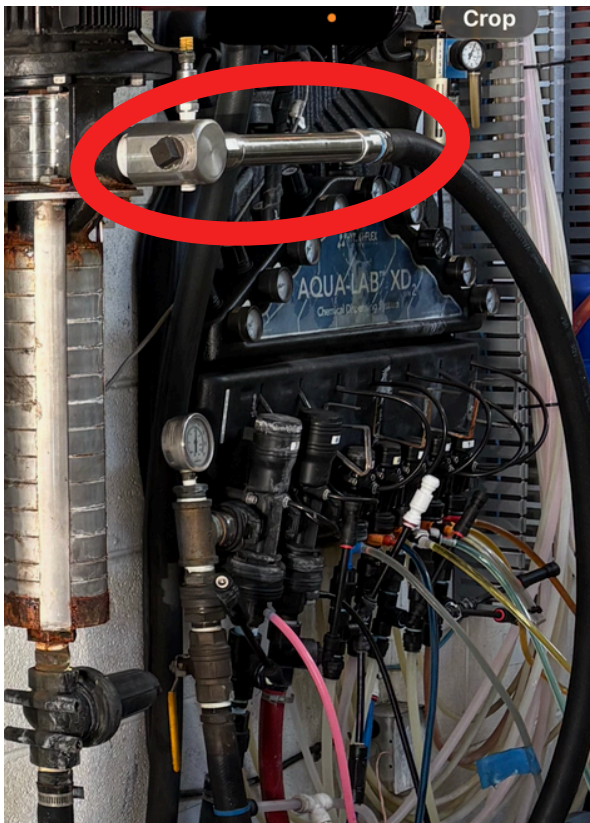
# NANOBUBBLIZER® ON HYDRA-FLEX

## Hydra-Flex Feedline Installation Instructions

### APPLICATIONS

- Suitable for all Hydra-Flex Panels
- Infuses feedwater with nanobubbles
- Enhances foaming performance and coverage of car wash chemistry
- No power, no programming, no maintenance required
- Can flow in either direction

### IMPORTANT INSTALL LOCATION



### BENEFITS FOR OPERATORS

- Higher Wash Quality
- Better Drying Performance
- Enhanced Coverage and Foaming Action
- Long-Term Equipment Protection
- Reduced Algae Growth in the Bay

# SIMONIZ®

### ✖ INSTALLATION STEPS

01

**Shut Off Water Supply**  
and relieve pressure by  
opening a downstream fitting

02

**Disconnect the water line to  
the Grundfos pump**

03

**Install NAN1020 inline**  
Using appropriate thread  
sealant and fittings

04

**Restore Water Supply**

05

**Check for Leaks**

06

**Flush and Return to Service**  
If machine is badly scaled a good  
flush should be done before re-using

### THREAD SEALANT REQUIREMENT

- Use Loctite 55 cord
- Apply to all NPT threads
- Do not use excessive sealant



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# NANOBUBBLIZER® ON DOSATRON

## Dosatron Feedline Installation Instructions

### APPLICATIONS

- Suitable for all Dosatron chemical injectors
- Infuses feedwater with nanobubbles
- Enhances foaming performance and coverage of car wash chemistry
- No power, no programming, no maintenance required
- Can flow in either direction

### IMPORTANT INSTALL LOCATION



### BENEFITS FOR OPERATORS

- Higher Wash Quality
- Better Drying Performance
- Enhanced Coverage and Foaming Action
- Long-Term Equipment Protection
- Reduced Algae Growth in the Bay

# SIMONIZ®

### ✖ INSTALLATION STEPS

01

**Shut Off Water Supply**  
and relieve pressure by  
opening a downstream fitting

02

**Disconnect the water line to  
the Dosatron**

03

**Install NAN15 inline on  
feedline**

04

**Restore Water Supply**

05

**Check for Leaks**

06

**Flush and Return to Service**  
If machine is badly scaled a good  
flush should be done before re-using

### THREAD SEALANT REQUIREMENT

- Use Loctite 55 cord
- Apply to all NPT threads
- Do not use excessive sealant



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