

Life-changing new technology

Cleans

Bioactivates

Sterilizes

Beautifies



Patent number 6667782

The world's smallest-diameter,
ultra-fine bubble generator

Bubble diameter: 23.1 to 30.0 nm

Nano Espuma

When the vacuum cavitation generated a ship's screw vanishes impulsively, the gas dissolved in the water forms bubbles at the nano level.

These bubbles are called "ultra-fine bubbles."

Our ultra-fine bubble generator "Nano Espuma" is manufactured by a new technology that faithfully reproduces this phenomenon using a stationary airfoil structure, which was achieved using CFD.

Nano Espuma efficiently generates ultra-fine bubbles with diameters of 30 nanometers or less in real time, making it possible to continue the diameter/distribution concentration of the bubbles even after the passage of time.

*CFD: Computer Fluid Dynamics



Bubble generation fluid analysis diagram



World's smallest diameter ultra-fine bubble generator

Nano Espuma

Bubble diameter: 23.1 to 30.0 nm

● Nano Espuma ultra-fine bubble water effect

* The photo is an image photo.

Improved cleaning effect

cleaning capacity of washing machine, solar panel cleaning, showers, etc.



Improved sterilizing effect

cleaning of hospital floors, air cleaners, farming and fish/shellfish sterilization, etc.



Bioactivation effect

increased efficiency of plant and animal cultivation, etc.



Advanced thermal conductivity

longer tool life, more accurately machined surfaces, etc.



Others

toilet cleaning, the medical field, cosmetics, etc.



Ultra-fine bubble generator Nano Espuma S1 type



Specifications
Working pressure: 0.1 to 2 MPa
Material: SUS316
Dimensions: total length 60 mm, diameter 27 mm
Inlet/Outlet: PT1/2
Recommended pressure: 1 MPa

Ultra-fine bubble generator Nano Espuma M type



Specifications
Working pressure: 0.1 to 0.3 MPa
Materials: Interior - Epoxy polymer
Exterior - SUS316
Dimensions: total length 50 mm, diameter 17.3 mm
Inlet/Outlet: PT3/8
Flow rate (theoretical): (Liters per minute)
Recommended pressure: 0.25 MPa

For inquiries about the Nano Espuma line-up or ultra-fine bubble water:



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