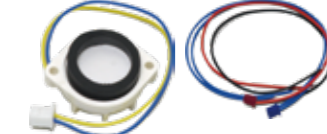


HMC-2400 / HMC-2401 Ultrasonic Atomize unit – Substrate type

<HMC-2400>

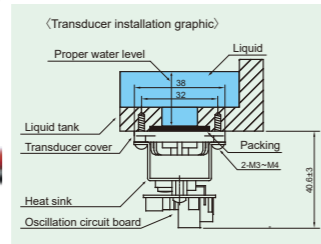


<HMC-2401>



<Introduction example >

- Fine mist generates by ultrasonic vibration could use for various situations.



Corresponds to HClO (Under 50ppm)

Model	HMC-2400	HMC-2401
Oscillation frequency		2.4MHz
Power input		DC24V
Power consumption	14VA	15VA
Proper water level	Normal use: 36mm±5mm between transducer and water surface Horn equipped use: 43mm±5mm between transducer and water surface	32.5mm±5mm between transducer and water surface
Ambient temperature	5°C~35°C ※	
Capability of atomization	Normal use: Approx. 150ml/h Horn equipped use: Approx. 360ml/h *Measured value in Water temperature 25°C	Approx. 190ml/h *Measured value in Water temperature 25°C
External dimensions	Circuit board+Heat sink: width 38mm × depth 30mm × height 36mm±3mm	
Circuit cooling system	Forced air cooling	
Equipment	Oscillation circuit board, HMC-2400 transducer Assy, Bundle power cord, Bundle float switch cord, Horn	Oscillation circuit board, HMC-2401 transducer Assy, Bundle power source, Bundle float switch cord

Please notice that specification and appearance might be change for improvement without announcing.
※ Ambient temperature is not a thing that ensures specification.

- The HMC-2400's transducer side shapes horizontally, and water column rises vertically.
- The HMC-2401's transducer side shapes obliquely, and water column rises obliquely(10°).

HM-17 Immersion Ultrasonic Atomize unit – Immersion type



<Features >

- Float keeps proper height by water level
- Float keeps proper height corresponds to water level



<Introduction example >

- Incorporate to machine
- Stage effect
- Experiment at College and Institution

Model	HM-17
Oscillation frequency	2.4MHz
Power input	DC24V
Capability of atomization	Approx. 210ml/h (Water temperature 25°C) ※1
Power consumption	20VA
Proper water level	Maximumly 15mm from horn edge ※2
Ambient water temperature	5~35°C ※3
External dimensions	Main unit: width 56mm × depth 78mm × height 79mm Float equipped use: width 100mm × depth 100mm × height 86mm
Power source	AC adaptor INPUT: AC100-240V 50/60Hz OUTPUT: DC24V

Please notice that specification and appearance might be change for improvement without announcing.
※1 Capability of atomization which blows with fan, activating in the constant water level, equipped float in the 15cm in diameter, 25cm in height column type reservoir.
※2 Please use the unit, completely sank horn in the water.
※3 Ambient temperature is not a thing that ensures specification.

※Caution※
Corresponded to Hypochlorous acid water (ph6.5, under 50ppm concentration).
As the cord might bleach, please avoid to use Neutral and Alkaline solution, or please use double tank (put the unit into the water in tank, and place another tank at upper direction of the unit).

We attend many exhibitions through year, and cooperating with liquid manufacturers. Also, we are keep testing our products and sharing information with other companies.



Caution of this catalogue

- This catalogue has been made based on March, 2020 information.
- Please notice that the product's specification and appearance may change without noticing.
- Catalogue and real product's color may looks different, due to its printing color.

※When the water temperature is low, the quantity of atomization will get low by bubble sticking to transducer side. When the water temperature is high, the quantity of atomization will be a lot.
※Please clean with cotton swab periodically, because when the surface of vibrating side gets dirty, or bubble sticks on it, the quantity of atomization will get low.
※Due to mist flows backward by making duct longer or shorter, please talk to us before you do.
※Unable to use Aroma liquid and Chlorine dioxide solution for Ultrasonic Atomizer. Hypochlorous acid water concentration of 50ppm (There are solutions which could not use depends on pH value)

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Contact:

28 Sep, 2020 Printed in Japan



Ultrasonic Atomizer



JM-1000



JM-301



JM-200



HMC-2400

Japanese Product

This catalogue has been issued for distribute in the Japanese market.

What is Ultrasonic Atomizer?

Ultrasonic Atomizer is using technology of scattering solution, converging high speed vibration to surface of liquid. We are supplying to liquid manufacturers as Japanese leading manufacturer.

Please Read

- This product is not medical equipment. It is not able to use solution which has effect of sterilization.
- We do not ensure for using any solutions except saled from our company.
- This product is not certified in your country, and it manufactured for using in Japan only.
- If you are thinking for product exportation to oversea, please make contact us.

Wall-hangable Ultrasonic Atomizer, standard compact type model

Ultrasonic Atomizer JM-200

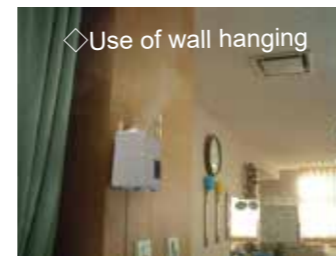


Model : JM-200
Oscillation frequency : 2.4MHz
Power source : AC adaptor INPUT:AC100V-240V 50/60Hz Output:DC24V
Power consumption : 25VA
Capability of atomization : Approx. 125ml/h (Continuous mode in water temperature 25°C)
Central atomized particle size : 3µm or less
Operation mode : Continuous mode/Intermittent mode 1 / Intermittent mode 2
Intermittent mode 1: 1 minute atomize and stop 3 minutes (approx. 31mL/h)
Intermittent mode 2: 1 minute atomize and stop 9 minutes (approx. 13mL/h)
Bottle capacity : 1000mL
Atomization level : 1/1・1/2・1/4
Ambient temperature : 5~35°C (No condensation permitted) ※1
External dimensions : L 180mm × W 100mm × H 180mm (excluding bottle)
Weight : Main unit 650 g (excluding solution)
AC adaptor Approx. 120g
Cord length : 1.8m
■ Accessories : AC adaptor, Bottle (1000mL), Wall-hang fitting(Mounting screw×2)
■ Other equipment : Water exhaustion lamp,
Corresponded hypochlorous acid water (Under 50ppm)

Please notice that specification and appearance might be change for improvement without announcing.
※1. Ambient temperature is not a thing that ensures specification.



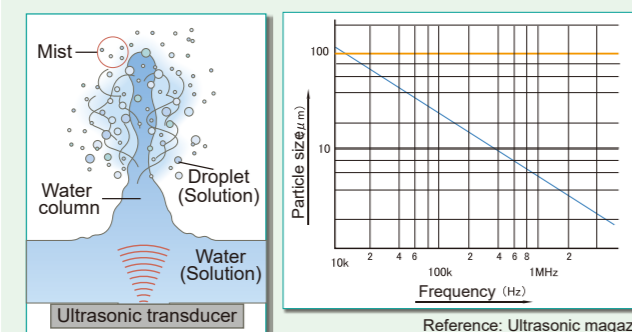
Hypochlorous acid water Usable under 50ppm 125ml/h



Principle and Usage of Ultrasonic Atomizer

Scatter the solution with energy of Ultrasonic.

Set ultrasonic transducer facing to the surface of liquid. When the ultrasonic oscillate forcibly, wave rises at center of high sound pressure, and energy of ultrasonic centralize and makes water column. At this moment, surface wave is occurring on water column's surface. This surface's standing wave is called capillary wave which is a fine wave. From this wave's edge (wave crest), droplet scatter as a mist. This is a principle of mist generation.



① Connect the power cord

AC adaptor corresponds to AC100V~AC240V.



② Fill the bottle with water and set to device

※When you move unit, because water runs into the unit too much, please remove the bottle.



③ Turn ON and start Atomize

As the smell generates all the time, recommend you to keep atomize through year.



Difference between our product and other manufacturer's products.

- Doing HClO correspondence processing to in-house produced ultrasonic transducer in Japan
- Using virgin resin which is resistant to HClO. We are particular about domestic production.
- Expand a solution's surface area, and set 2.4MHz to make effect of bacteria removal and deodorization immediately.

Atomize and make relaxation space by mist effect

Ultrasonic Atomizer JM-301



Model : JM-301
Oscillation frequency : 2.4MHz
Power source : AC adaptor INPUT:AC100V-240V 50/60Hz Output:DC24V ※1
Power consumption : 50VA
Capability of atomization : Approx. 300ml/h (Continuous mode in water temperature 25°C)
Central atomized particle size : 3µm or less
Operation mode : Continuous mode/Intermittent mode 1 / Intermittent mode 2
Intermittent mode 1: 1 minute atomize and stop 3 minutes
Intermittent mode 2: 1 minute atomize and stop 9 minutes
Bottle capacity : 3300mL
Atomization level : 1/1・1/2・1/4
Ambient temperature : 5~35°C (No condensation permitted) ※2
External dimensions : L 425mm × W 190mm × H 480mm
Weight : Approx. 3 kg (excluding solution)
Cord length : 2.7m
Accessories : AC adaptor, Normal Shooter, Bottle (3300mL)
Other equipment : Water exhaustion lamp Option : Duct, 3300mL Bottle
Corresponded to hypochlorous acid water (Under 50ppm)
Please notice that specification and appearance might be change for improvement without announcing.



Hypochlorous acid water Usable under 50ppm 300ml/h

- ※1. Attached power cord is applied to Japanese(AC100V) law and safety standard.
- ※2. Ambient temperature is not a thing that ensures specification.

< Installation example >



Adjust volume of atomization for each space and situation

Ultrasonic Atomizer JM-1000



Model : JM-1000
Oscillation frequency : 2.4MHz
Power source : AC adaptor INPUT:AC100V-240V 50/60Hz Output:DC24V ※1
Power consumption : 70VA
Capability of atomization : Approx. 1000ml (Continuous mode in water temperature 25°C)
Central atomized particle size : 3µm or less
Operation mode : Continuous mode/Intermittent mode 1 / Intermittent mode 2/Intermittent mode 3
Intermittent mode 1: 1 minute atomize and stop 1 minute
Intermittent mode 2: 1 minute atomize and stop 3 minutes
Intermittent mode 3: 1 minute atomize and stop 9 minutes
Bottle capacity : 3300mL
Ambient temperature : 5~35°C (No condensation permitted) ※2
External dimensions : L 334mm × W 230mm × H 310mm (excluding duct size)
Duct size(mm) : φ60×400
Weight : Main unit: Approx. 6.8kg (excluding solution)
Cord length : Power cord: 2m
Accessories : AC adaptor, Normal duct, Bottle (3300mL)
Other equipment : Water exhaustion lamp, Wind volume adjust switch
Please notice that specification and appearance might be change for improvement without announcing.
※1. Attached power cord is applied to Japanese(AC100V) law and safety standard.
※2. Ambient temperature is not a thing that ensures specification.



Hypochlorous acid water Usable under 50ppm 1000ml/h