

OZONE SYSTEMS

Ultra-high concentration ozonizers and ozonized water generators

Model OZW

Model OZW generates highly-concentrated and pure water by incorporating EBARA's unique clean ozonizer and particle-free pump that minimizes pulsation and particles.

Model ○○○ in this site is our model code



This ozonizer continuously supplies clean ozonized water to meet the requirements of next-generation wet process through the use of a fluorocarbon hollow fiber membrane, a clean and high-concentration Ozonized Water Generator and a particle-free pump.

Features

- **High concentration, large volume ozonized water supply**
The system is capable of providing a continuous supply of ozonized water at an ozone concentration ranging from high to very low level. Both the ozone concentration of the ozonized water and its flow rate are variable to suit the required operating conditions.
- **Impurity-free ozonized water**
The use of the clean ozonizer and particle-free pump specially developed by Ebara Corporation marks a major advance in virtually eliminating impurities. The dispersive dissolving of ozone gas in ultra-pure water through a fluorocarbon polymers hollow-fiber membrane also marks a significant step toward virtually eliminating the bubble formation and the ingress of TOC and metal impurities.
- **Superior concentration and flow rate stability**
The ozonized water is continuously monitored and the measurement data is used for feed back control to stabilize the ozone concentration at a steady level. Thanks to the use of an infinitely variable speed particlefree pump developed by Ebara Corporation, it is possible to supply a constant flow of ozonized water even when the system has been installed so that a level difference exists between the wet station and the ozonizer.
- **Superior ease of operation, safety and reliability make the system ideally suited for production line use**
To facilitate operation in combination with a wet station, built-in coupled operating signal and interlock signal circuits are provided, with the system configuration designed to assure easy maintenance of all units. The system also has a safety circuit to stop the units safely in an error or emergency. (Can be a Semi S2/CE available)
- **DRO (Degas, Regas and Ozone) system**
The system is capable of providing higher functional water to combine EBARA deaeration water and gas dissolution generators (H₂, N₂, CO₂).

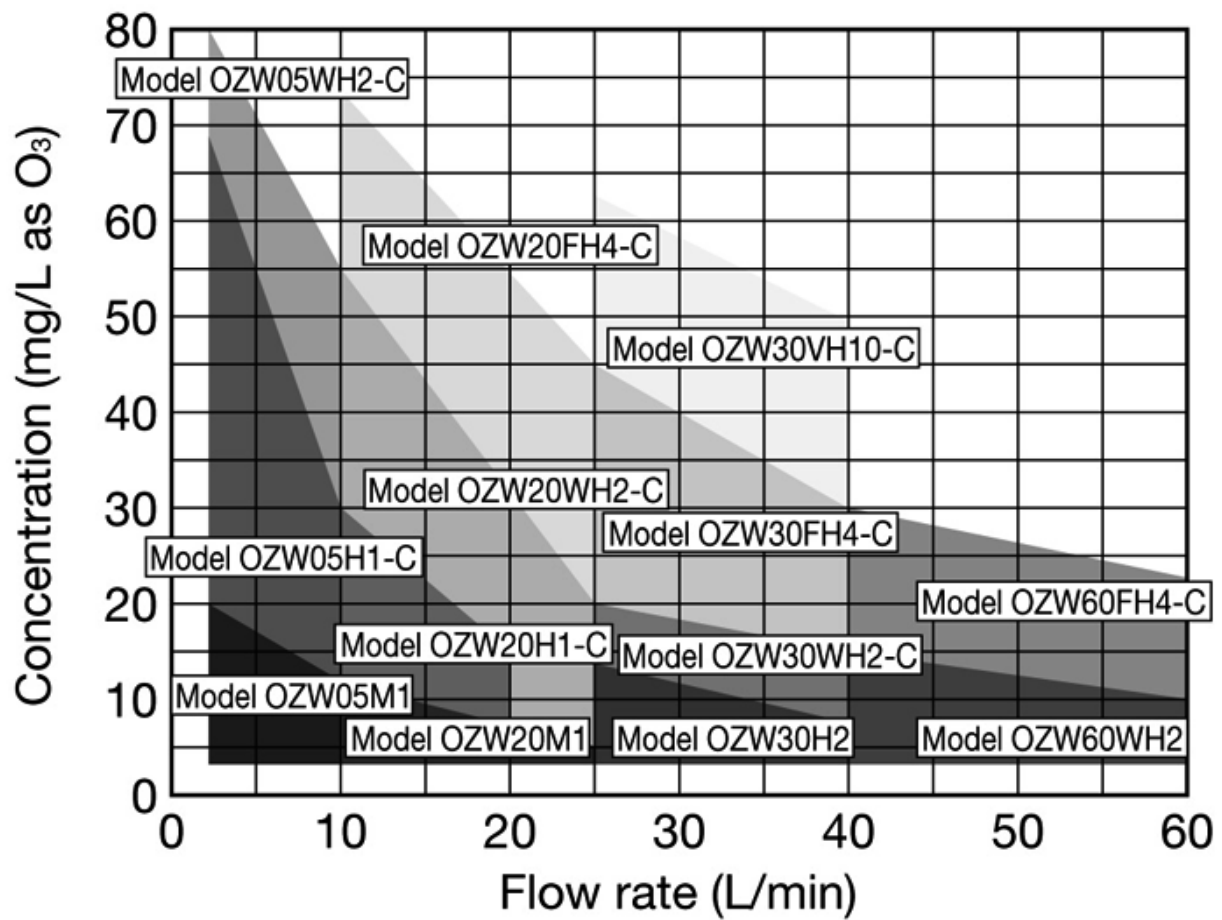
Specification Table

Model		OZW 05M1	OZW 05H1	OZW 05WH2	OZW 20M1	OZW 20H1	OZW 20WH2	OZW 20FH4	OZW 30H2	OZW 30WH2	OZW 30FH4	OZW 30VH10	OZW 60WH2	OZW 60FH4		
			-C	-C		-C	-C	-C		-C	-C	-C		-C		
Water flow rate (L/min)		3~10			10~25				25~40				40~60			
Performance	Ozonized Water Concentration (mg/L as O ₃)	15	55	70	8	15	30	55	10	20	40	60	10	20		
	Standard flow rate (L/min)	5			20				30				60			
	Delivery pressure (MPa)	0.25(Max.)							0.25(Max.)							
	Dimension (W) x (D) x (H) mm	930 x 520 x 1,904	1,350 x 600 x 2,057	930 x 520 x 1,904	1,350 x 600 x 2,057	1,145 x 1,000 x 2,117	980 x 570 x 1,950	1,350 x 600 x 2,057	1,145 x 1,000 x 2,117	1,350 x 1,000 x 2,117	1,350 x 720 x 2,057	1,200 x 1,000 x 2,117				
Weight(kg)		400	400	550	400	400	550	650	450	550	650	750	600	700		
Utility	Inlet water	Quality	DI Water							DI Water						
		Pressure (MPa)	0.15~0.30							0.20~0.30						
	Cooling water	Pressure (MPa)	0.20~0.50							0.20~0.50						
		Temperature (°C)	15~23							15~23						
		Flow rate (L/min)	5	9	5	9	17	9	9	17	26	9	17			
	O ₂ /N ₂ gas	Pressure (MPa)	0.21~0.50							0.21~0.50						
	CO ₂ gas	Pressure (MPa)	0.21~0.50							0.21~0.50						
	Clean dry air	Pressure (MPa)	0.60~0.90							0.60~0.90						
	Electrical	Voltage/Phase/Frequency	AC200~208±10% / 3 Phase / 50/60Hz							AC200~208±10% / 3 Phase / 50/60Hz						
		-power Consumption (kVA)	2.4	5.9	2.4	5.9	9.4	3.2	5.9	9.4	14	6	9.5			
Exhaust	Flow rate (m ³ /min)	1.0>	2.0>	1.0>	2.0>	3.0>	1.0>	2.0>	3.0>	3.0>	2.0>	3.0>				
Ozonized water drain	Flow rate (L/min)	5			20				30				60			

Condition of Inlet water

Resistivity: not less than 18.1 MΩ·cm, DN:less than 3 ppm, DO :less than 50ppb, TOC 3 ~10ppb, Temperature of water 15~25°C

Performance Curves

**Listed items**

This Product falls under "the goods listed in the Export Trade Control Order of Japan". In case of export of the product, you are required to obtain the export license through the Minister of Economy, Trade and Industry.