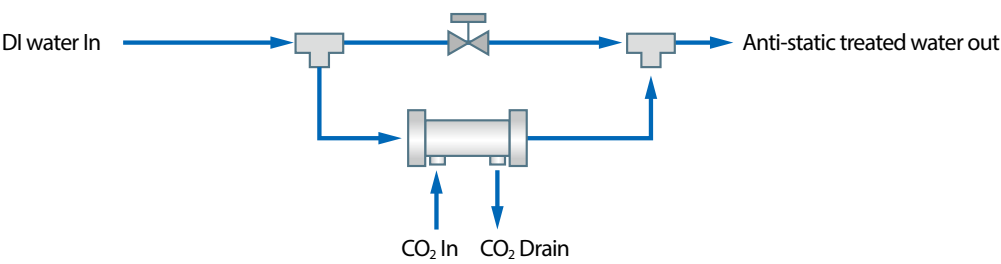


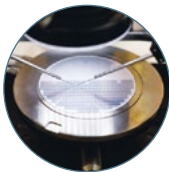
CO₂ Injection & Bubbler

Schematic Diagram

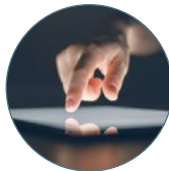


Semi-conductor and Display industry require significant amount of deionized water for cleaning process. Dissolved CO₂ in the deionized water reduces electric resistance of the surface of wafers and display glasses, which is necessary to reduce the defect rate of the production line. Airrane provides both CO₂ injection membrane module and CO₂ bubbler device as well.

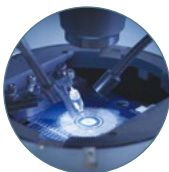
Key Applications



Ultrapure water for semi-conductor wafer cleaning process (Scrubber, Lithography, Mask, CMP, Dicing)



Ultrapure water for display glass cleaning process (Mask, Glass Cleaning)



Applications for anti-static treated water required

AIRRANE Product Specifications

Model Number	Dimension (mm)			Connection (inch)			DI Water
	L	OD	ID	Feed	Retentate	CO ₂ In / Out	
MDB-1004P	50	141	104	1/4"	1/4"	1/4"	0.2~2.0L/m
MDB-1607P	60	218	180	1/2"	1/2"	1/8"	2.0~15L/m
MDB-2108P	76	274	200	1"	1"	1/4"	15~30L/m
MDB-2108P	79	350	250	1.5"	1.5"	1/4"	10~50L/m

Why membrane for CO₂ injection and bubbler?

- Airrane is a patent-protected membrane manufacturer
- Fast CO₂ dissolution time
- Simple design reduces maintenance requirements
- Real time data transfer system provides user's convenience

CO₂ Injection Membrane / CO₂ Bubbler



CO₂ Injection Membrane (MDB-2108P)



CO₂ Bubbler

Performance Diagram

