

- World's First
- Breakthrough Innovation in Aeration Diffuser
- Ultra Durable
- No Replacement Needed
- Multiple International Patents

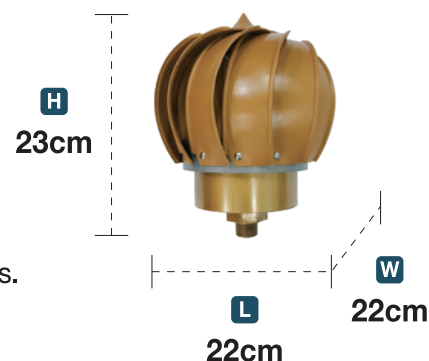


SPHERICAL AERATION DIFFUSER

For the existing water treatment plants
Replace to use it directly
Improve the problem of sludge accumulation

BENEFITS

- Stable oxygen transfer efficiency that does not decrease over time.
- Saves 45%–75% in energy (no pressure loss or water depth limitation).
- Durable materials with a lifespan of over 15 years.
- Easy installation with no consumable parts to replace and no clogging.
- World's first spherical design combining aeration and sludge agitation functions.



SPHERICAL AERATION DIFFUSER SPECIFICATIONS

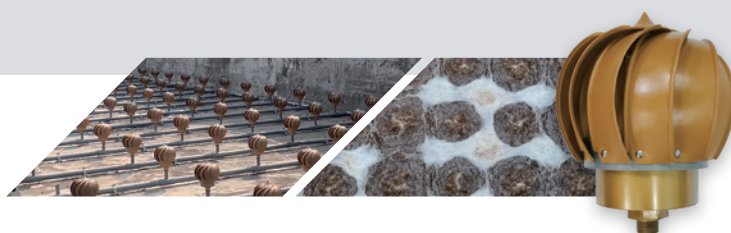
Specifications	Size (Non-Convection Air Cover)	Material	Weight (Non-Convection Air Cover)	Air Flow (cmm)	Installation Range	Applicable Water Depth	Suitable Environment
ACP-N	1"	Nylon + ABS	0.7KG	0.2~0.3	1Mx1M	50cm	HighTemperature Agitation Acid and Alkali Resistant



FUNCTION COMPARISON

Spherical Aeration Diffuser vs. Aeration Tube vs. Aeration Diffuser vs. Japanese OHR Aeration Tube

No.	Comparison Item	Spherical Aeration Diffuser	Aeration Tube	Aeration Diffuser	Japanese OHR Aeration Tube
1	Pressure Loss	No pressure loss	Approx. 1000 mmAq or higher, prone to rupture	Approx. 1000 mmAq or higher, prone to rupture	No pressure loss
2	Bubble Size	Fine bubbles (verified by test report)	Fine bubbles (verified by test report)	Fine bubbles (as recorded in literature)	Coarse bubbles
3	Power Consumption	No pressure loss, saves over 40% energy	Has pressure loss, consumes 30% more power	Has pressure loss, consumes 30% more power	No pressure loss, but low oxygen transfer efficiency, no power savings
4	Piping Work	Damage-free, can use ring piping, easy installation	Easily damaged, requires branch piping, difficult installation	Easily damaged, requires branch piping, difficult installation	Uneven airflow distribution, requires branch piping
5	Service Life	Over 15 years	Rubber material ages easily, 1-3 years	Rubber material ages easily, 1-3 years	15 years
6	Clogging	Anti-reverse glass bead design, never clogs	Prone to clogging, replacement needed every 2-3 years	Prone to clogging, replacement needed every 2-3 years	Prone to clogging, no anti-reverse design
7	Design Depth	Can reach blower outlet pressure	Must design 1.5 m below outlet pressure	Must design 1.5 m below outlet pressure	Can reach blower outlet pressure
8	Oxygen Transfer Efficiency (at 6 m depth)	13.19% (verified by test report)	15.11% (verified by test report)	10-12% (as recorded in literature)	Coarse bubbles, not tested
9	Oxygen Transfer Degradation	Never decreases over time	Efficiency decreases over time due to clogging caused by aging of the rubber membrane	Efficiency decreases over time due to clogging caused by aging of the rubber membrane	Efficiency decreases as pipes clog
10	Sludge Accumulation	With convection cover prevents sludge buildup	Sludge tends to accumulate	Sludge tends to accumulate	With convection cover prevents sludge buildup
11	Replacement Maintenance Safety	No damage No replacement needed No risk of fatal accidents	During replacement, if hydrogen sulfide concentration is high, fatal risk exists	During replacement, if hydrogen sulfide concentration is high, fatal risk exists	During replacement, if hydrogen sulfide concentration is high, fatal risk exists



PERFORMANCE COMPARISON

Comparison of Differences	Installed Items	Traditional Aeration Diffuser (Before Installation)	Spherical Aeration Diffuser (After Installation)
	Installation Company		
Dissolved Oxygen (DOmg/L)	FU TIEN PLASTICS CO., LTD.	0.8~1.2	5~6 (High Dissolved Oxygen)
	YUNG IEE GREEN MATERIAL CO., LTD.	1~2	5~6 (High Dissolved Oxygen)
Power Consumption (Blower Horsepower)	FU TIEN PLASTICS CO., LTD.	15HP	10HP (Energy Saving)
	YUNG IEE GREEN MATERIAL CO., LTD.	20HP	15HP (Energy Saving)

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