

Air Diffusers

WATER AERATION OXIDATION & MIXING



KEY FEATURES

- Semi-flexible, tubular construction
- Self ballasted, no extra anchorage required
- Easy to clean and maintain
- Air handling capacity from 1 - 10m³/hr
- Less than 0.2 Bar (3 psi) pressure differential
- Oxygen transfer efficiency up to 5kg/kwhr
- Resistant to calcification
- Robust and long-lasting (typical lifespan in chemically aggressive landfill leachate plants is more than 10 years)

Simple, efficient and sustainable water treatment without chemicals!

WHAT ARE DRYDEN AQUA AIR DIFFUSERS?

The Dryden Aqua Air Diffuser is a semi-flexible, high-efficiency fine bubble air diffuser available in 9 different lengths, depending on the air, oxygen or carbon dioxide through-put required. It provides oxygen transfer rates of up to 5kg/kw, 10m³/h of air and 1 kg of O₂/h. Its semi-flexible construction with its own internal ballast will stay on the bottom of the lagoon or pit without the need to be anchored to the floor. The Dryden Aqua Air Diffuser is quick and easy to install and can be maintained while air blowers are operating and water reservoir is full.



Our air diffusers have an average bubble size of 1mm with Oxygen transfer coefficient of over 5 kg of O₂ per kW.



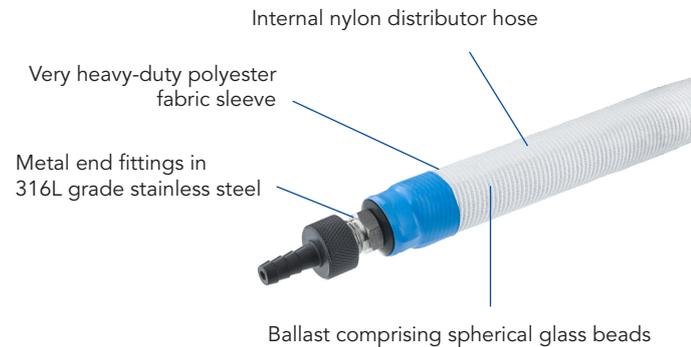
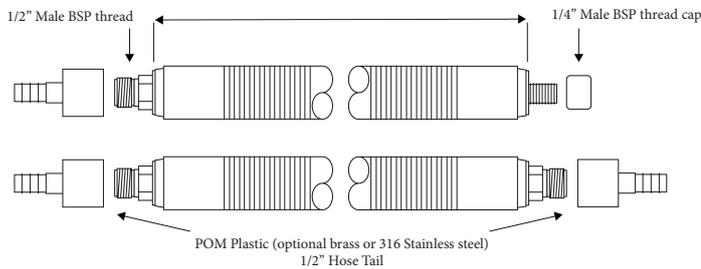
Description	Air Flow m ³ /hr (+/- 20%)	Oxygen Transfer kg of O ₂ / day per diffuser at different depths		
		2 m	3 m	4 m
0.33 m Diffuser	1	2 kg O ₂	2.5 kg O ₂	3 kg O ₂
0.66 m Diffuser	2	4 kg O ₂	5.0 kg O ₂	6 kg O ₂
1.00 m Diffuser	3	6 kg O ₂	7.5 kg O ₂	9 kg O ₂
1.33 m Diffuser	4	8 kg O ₂	10 kg O ₂	12 kg O ₂
1.66 m Diffuser	5	10 kg O ₂	12 kg O ₂	15 kg O ₂
2.00 m Diffuser	6	12 kg O ₂	15 kg O ₂	18 kg O ₂
2.33 m Diffuser	7	14 kg O ₂	17 kg O ₂	21 kg O ₂
2.66 m Diffuser	8	16 kg O ₂	20 kg O ₂	24 kg O ₂
3.0 m Diffuser with NRV	9	18 kg O ₂	22 kg O ₂	27 kg O ₂

TYPICAL APPLICATIONS

- Industrial wastewater treatment
- Activated sludge, wastewater
- Landfill leachate waste water
- Extended diffused aeration systems
- Agricultural waste water
- Reduction of THMs by air stripping
- Oxidation of ferric, manganese and arsenic
- Destratification of lakes or reservoirs
- Wetland water treatment systems
- Aquaculture for fish & shrimps



DIFFUSER CONSTRUCTION



For further detailed information and instruction on use of diffusers, please consult the Diffusers IFU (Instructions For Use) document which can be downloaded from the Dryden Aqua website www.drydenaqua.com. **QR code to Air diffuser IFU**

