Aeration Management Systems











Non-clogging, permanently installed



Low maintenance, reliable perfomance



Highly effective oxygenation and mixing



ADVANCED WASTEWATER TREATMENT

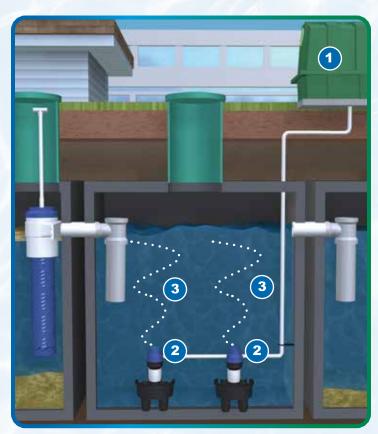
BETTER WATER. BETTER WORLD."

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SIMPLE LOW







LIXOR[®] is a remarkably effective submerged aeration mixing system. Extremely low-maintenance and surprisingly efficient.

The **LIXOR's** nonclogging, venturi-style chamberl, creates the

environment for high levels of oxygen transfer efficiency with proper mixing to promote aerobic bacteria and other microorganisms that quickly biodegrade and digest incoming organic matter.

Installed in new or existing tanks, multiple Lixor's may be used to help achieve desired treatment goals. These submerged aeration systems provide the right environment for aerobic bacteria and other microorganisms to quickly biodegrade and digest incoming organic matter as a standalone "Activated Sludge" system (see **RollsAIR**®) or in various pre- or post- phases of a wastewater treatment system to help achieve desired treatment goals.

HOW IT WORKS!

- Equipped with an above-ground, regenerative blower - the system's only moving part, a continuous large volume of air is piped down to the submerged LIXOR[®] device(s).
- The velocity of air and water increase substantially inside the LIXOR's venturi chamber creating a vacuum that pulls in surrounding liquid and breaks the incomig air stream into smaller size bubbles.
- The result is a turbulent plume of water and bubbles that travel up through the water, transferring oxygen for biological activity and creating horizonta and vertical mixing patterns.

LIXOR[®] Specifications

Max. BOD loading per tank volume: 6.7 ppd/kgal* [0.80 kg/d/m³]

	MINIMUM WATER DEPTH				MAXIMUM AIR RELEASE DEPTH		MAXIMUM TANK VOLUME		MINIMUM	BOD LOAD	
MODEL SIZE	ft	m	ft	m	AIR RELEA	m	gal		HYDRAULIC RETENTION TIME	Pounds per Ibs	Day [kg/d/unit] kg
LIXOR [®] 0.5	4 ft	1.2 m	5.5	1.7	4.5	1.4	2000	7.5		4.0	0.5
	4 11	1.2 111			-				-	-	
LIXOR® 1.0			7.0	2.1	6.0	1.8	3000	11.3		6.5	0.8
LIXOR [®] 2.0			9.0	2.7	8.0	2.4	6000	22.7	-	13.0	1.6
LIXOR® 3.0			9.0	2.7	8.0	2.4	9000	34.0		19.5	2.3
LIXOR [®] 4.0			9.0	2.7	8.0	2.4	12000	45.4		26.0	3.1
LIXOR [®] 4.0XD			12.0	3.7	11.0	3.3	12000	45.4		26.0	3.1
LIXOR [®] 6.0			9.0	2.7	8.0	2.4	18000	68.0		39.0	4.7
LIXOR® 6.0XD			12.0	3.7	11.0	3.3	18000	68.0		39.0	4.7
LIXOR [®] 8.0			9.0	2.7	8.0	2.4	24000	91.0		52.0	6.2
LIXOR [®] 8.0XD	5 ft	1.5 m	12.0	3.7	11.0	3.3	24000	91.0	10 hours	52.0	6.2
LIXOR® 10.0			9.0	2.7	8.0	2.4	30000	114.0		65.0	7.8
LIXOR® 10.0XD			12.0	3.7	11.0	3.3	30000	114.0		65.0	7.8
LIXOR [®] 12.0			9.0	2.7	8.0	2.4	36000	136.0		78.0	9.4
LIXOR® 12.0XD			12.0	3.7	11.0	3.3	36000	136.0		78.0	9.4
LIXOR [®] 16.0			9.0	2.7	8.0	2.4	48000	182.0		104.0	12.5
LIXOR® 16.0XD			12.0	3.7	11.0	3.3	48000	182.0		104.0	12.5
LIXOR® 20.0			9.0	2.7	8.0	2.4	60000	227.0		130.0	15.6
LIXOR® 20.0XD			12.0	3.7	11.0	3.3	60000	227.0		130.0	15.6
LIXOR® 24.0			9.0	2.7	8.0	2.4	72000	273.0		156.0	18.7
LIXOR® 24.0XD			12.0	3.7	11.0	3.3	72000	273.0		156.0	18.7
LIXOR® 32.0			9.0	2.7	8.0	2.4	96000	364.0		208.0	25.0
LIXOR® 32.0XD			12.0	3.7	11.0	3.3	96000	364.0		208.0	25.0

*Tank volume is determined by the greater at hydraulic retention time or voume per BOD load.



BioRobic® 4.0

Ideal for use with BioBarrier[®] HSMBR[®] system such as Winery Wastewater Treatment Applications

HOW IT WORKS!

- Equipped with an above-ground, regenerative blower the system's only moving part, a continuous large volume of air is piped down to the submerged BioRobic[®] device(s).
- 2 This air stream from the blower travels through the orifices of the BioRobic[®]. The results in the breaking of the incoming air stream into smaller size bubbles.
- 3 The result is a turbulent plume of water and bubbles that travel up through the water, transferring oxygen for biological activity and creating horizontal and vertical mixing patterns.

BioRobic[®] Submerged Aeration System Specifications

MODEL SIZE	MINIMUM WATER DEPTH ft m		MAXIMUM WATER DEPTH ft m		MAXIMUM AIR RELEASE DEPTH ft m		BOD LOAD Pounds per Day [kg/d/unit] Ibs kg	
BioRobic [®] 1.0	5	1.5	8	2.4	8	2.4	5	2.3
BioRobic [®] 2.0	5	1.5	8	2.4	8	2.4	10	4.5
BioRobic [®] 3.0	5	1.5	8	2.4	8	2.4	15	6.8
BioRobic [®] 4.0	5	1.5	8	2.4	8	2.4	20	9.1
BioRobic [®] 6.0	5	1.5	8	2.4	8	2.4	30	13.6
BioRobic [®] 8.0	5	1.5	8	2.4	8	2.4	40	18.1

In the interest of technological progress, all BioRobic[®] Submerged Aeration Devices are subject to design and/or materials change without notice.



Established in 1996 to focus on water, BioMicrobics – and subsidiaries SeptiTech and Scienco/FAST – is at the forefront of sustainable design, with more than 80,000 systems in over 80 countries. Our systems meet the highest performance standards for treatment of water, graywater, wastewater, and stormwater. BioMicrobics produces innovative systems dealing with wastewater treatment in decentralized settings. Our products are engineered to be simple, low-cost, and robust.

LIXOR









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