



# ECO-ANT21 Corporation

*ECO-ANT21 Corporation provides aeration solutions and biological wastewater treatment systems. We service our customers through a network of distributors to deliver maximum value and cost effective solutions for their specific needs.*

*Our patented cone-shaped diffusers provide fine and coarse bubble aeration in wastewater treatment systems. Our diffusers are more durable and cost less to maintain than the traditional disc diffusers. It is also non-clogging and can withstand compressed air heat, making it a wise choice for a new or replacement applications.*

*We will continue to focus on developing our diffusers for better aeration system which is a fundamental component of biological wastewater treatment. Whether it be solutions development, operations, or maintenance support, we support our clients' needs in every step of the project.*

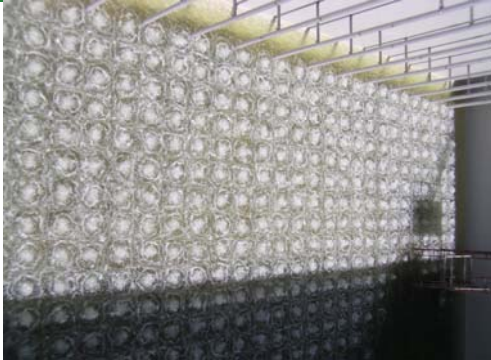


*"We care about water and the environment"*  
[www.antdiffuser.com](http://www.antdiffuser.com)



### LG-Phillips Electronics' Paju, South Korea

#### WASTEWATER TREATMENT

**DIM. In Feet**

AEROBIC BASIN : 51(L) \* 67(W) \* 29(H)

ANAEROBIC BASIN : 46(L) \* 24.6(W) \* 29(H)

**NUMBER OF DIFFUSERS****A. FIRST**

YEAR : 2005

AEROBIC : 632EA/BASIN X 4 BASIN = 2528EA

ANAEROBIC : 220EA/BASIN X 4 BASIN = 880EA

**B. SECOND**

YEAR : 2006

AEROBIC : 632EA/SITE X 2SITE = 1264EA

ANAEROBIC : 220EA/SITE X 2SITE = 440EA

**AIR FLOW RATES PER UNIT**

3.53~3.9 (SCFM)

**DIMENSION OF DIFFUSER**

240 mm D.A. X 180mmH ( INCLUDING CHECK VALVE )

**MATERIAL OF MANIFOLD**

STAINLESS STEEL(SS304)

**DIFFUSER SPACING**

AEROBIC : 650mm X 500mm

ANAEROBIC : 650mm X 500mm

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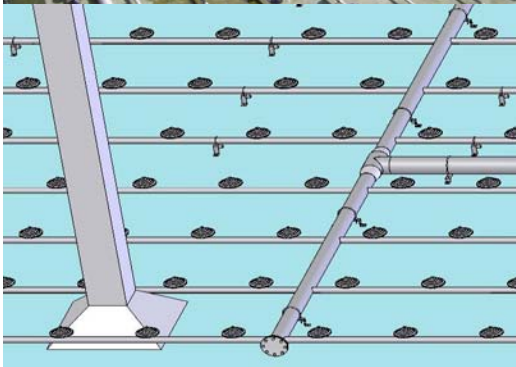
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**'KUN-SAN' Municipal Sewage Treatment Plant**  
**Kun-San, South Korea**

**SEWAGE TREATMENT**



**DIM. In Feet**

A BASIN : 117.4(L) \* 116.7(W) \* 19.1(H)

B BASIN : 117.4(L) \* 116.7(W) \* 19.1(H)

**NUMBER OF DIFFUSERS**

YEAR : 2007 ~

A BASIN : 1,176EA/SITE X 6SITE = 7,056EA

B BASIN : 368EA/SITE X 6SITE = 2,208EA

**AIR FLOW RATES PER UNIT**

2.82~ 3.53 (SCFM)

**DIMENSION OF DIFFUSER**

240mm D.A. X 80mmH ( INCLUDING CHECK VALVE )

**MATERIAL OF MANIFOLD**

STAINLESS STEEL(STS304)

**DIFFUSER SPACING**

A BASIN : 900mm X 1050mm

B BASIN : 900mm X 900mm

Process	Section	Anoxic	Aerobic	Total
MLE	HRT (hr)	0~4.52	4.53~5.66	9.1
	Ratio(%)	37.9	62.1	100.0

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### SAFWA

Dammam, Saudi Arabia

### SEWAGE TREATMENT



	Before	After	Note
<b>Machine</b>	Surface Aerator	ANT Diffuser	
<b>General condition comparison</b>			
Treatment Capacity [m <sup>3</sup> /day]	5,000	7,000	1 aeration tank
Size of Aeration tank [m <sup>3</sup> ]	3,060	3,060	1 aeration tank
Retention time[h]	14.7	10.4	1 aeration tank
DO[mg/L]	0~1 (0.7)	0.8~3.3(2.05)	1 aeration tank
Ratio of Treatment Capacity(%)	-	35% increase	
<b>Energy consumption comparison</b>			
Power (KW)	75	56	1 aeration tank
Operating Power/ Year (KW)	657,000	490,560	1 aeration tank
Power rates(won)	39,420,000	29,433,600	1 aeration tank
Power rates(won)	78,840,000	58,867,200	2 aeration tank
Ratio of cost reduction (%)	-	25.3%	

### ECO-ANT21 CORPORATION

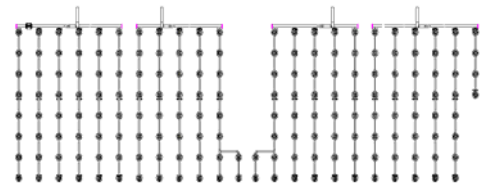
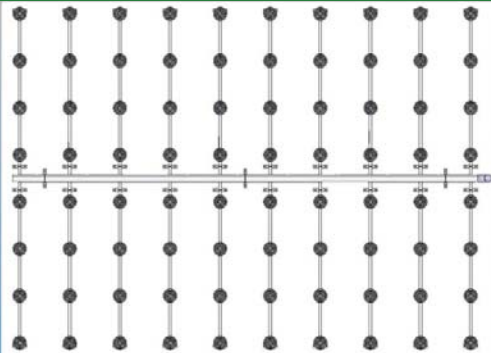
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### KG Sewage Treatment Plant Il-San, South Korea

#### SEWAGE TREATMENT



#### NUMBER OF DIFFUSERS

SWING ZONE : 82EA/SITE X 32SITE = 2,624EA

AEROBIC : 176EA/SITE X 32SITE = 5,632EA

#### AIR FLOW RATES PER UNIT

2.82~ 4.6 (SCFM)

#### DIMENSION OF DIFFUSER

327 mm D.A. X 80mmH ( INCLUDING CHECK VALVE )

#### MATERIAL OF MANIFOLD

STAINLESS STEEL(STS304)

#### DIFFUSER SPACING

SWING ZONE : 820 mm X 900 mm

AEROBIC : 820 mm X 950 mm

Process	Section	Anoxic	Aerobic	Total
MLE	HRT (hr)	1.80	4.34	6.14
	Ratio(%)	29.4	70.6	100.0

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