



NO CLOGGING, NO MAINTENANCE

ECORATOR

AIR DIFUSER



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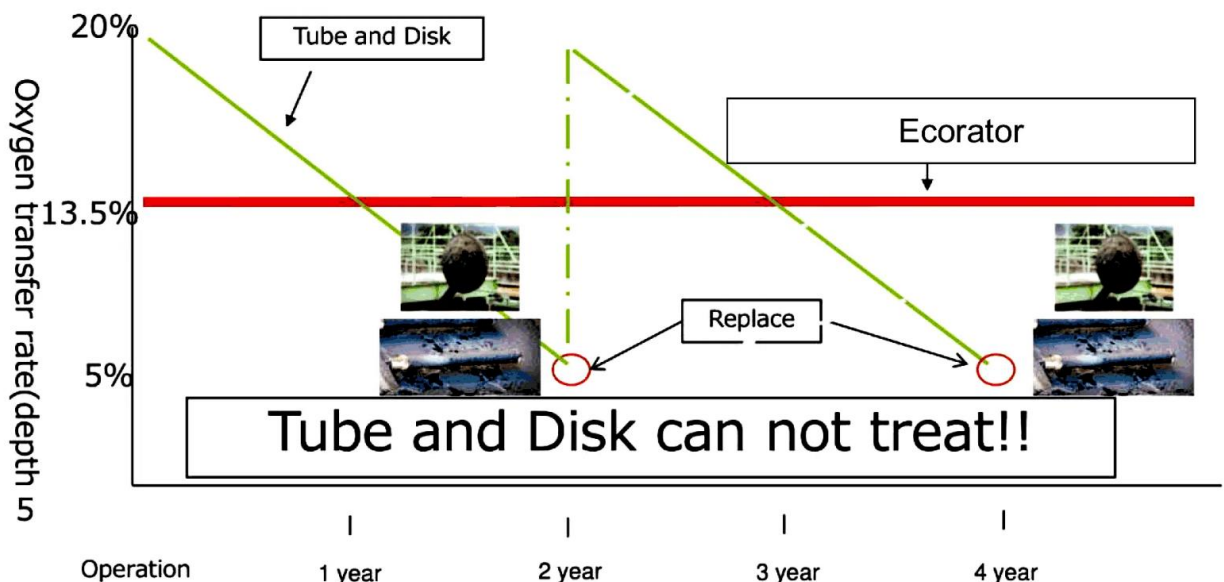
PROBLEM DIFFUSER MODEL LAMA

1. Penggantian rutin
2. Perawatan yang sulit
3. Penyumbatan (clogging)
4. Sobek pada disk membran
5. Biaya perawatan yang tinggi
6. Pressure blower tinggi (daya besar)
7. Adanya pengendapan di dasar kolam
8. Area pojok yang tidak tersuplai udara



PERBANDINGAN

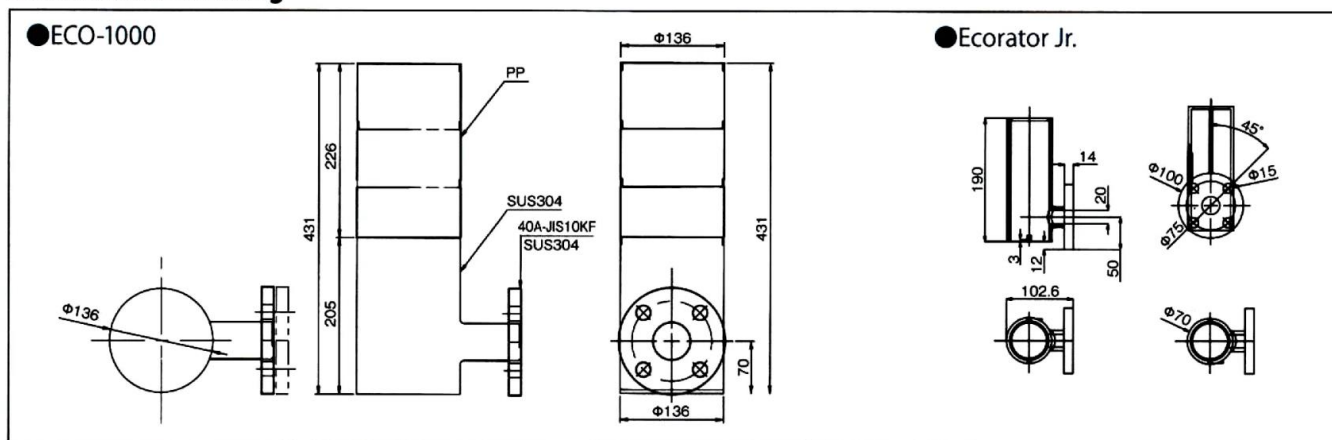
Image				
Name	SEIKA ECO 1000	SEIKA Ecorator Jr.	Tube	Disk
Lifetime	10 Years or longer	10 years or longer	1-3 Years	1-3 Years
Clogging	No Clogging	No Clogging	Clogging Breaking Rubber	Clogging Breaking Rubber
Pressure Loss	Less Than 100 mmAq	Less Than 100 mmAq	New : 300 mmAq Clogging : 500 mmAq	New : 300 mmAq Clogging : 500 mmAq
Airflow per Uni	700 - 1400 L/min	150 - 300 L/min	130 - 250 L/min	50 - 150 L/min



Specification table

Model	Material			Weight (kg)	Air blow amount per pipe (m³/min)			Agitation area per pipe	Water depth
	Body	Air piping	Connector		Lower limit	Standard	Upper limit		
ECO-1000	PP	SUS40A	Integrated (SUS)	4	0.7	1	1.4	6~7 m²	2 m +
Ecorator Jr.	PP	PP20A	1. Flange Type 2. Union Type	Appx.0.4	0.15	0.25	0.3	1~2 m²	1 m +

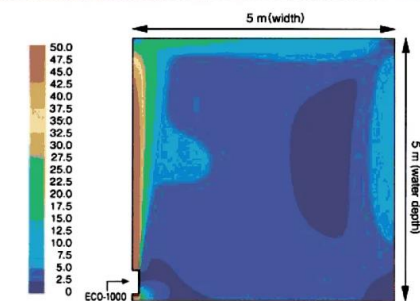
Dimensional drawing



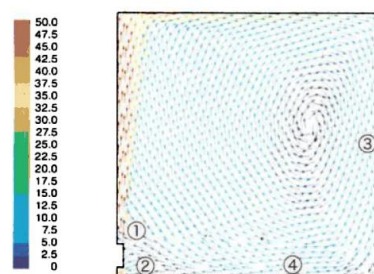
Mixing simulation (swirl flow aeration method, water depth 5 m, width 5 m)

※ The brighter the color, the higher the flowrate..

Model ECO-1000

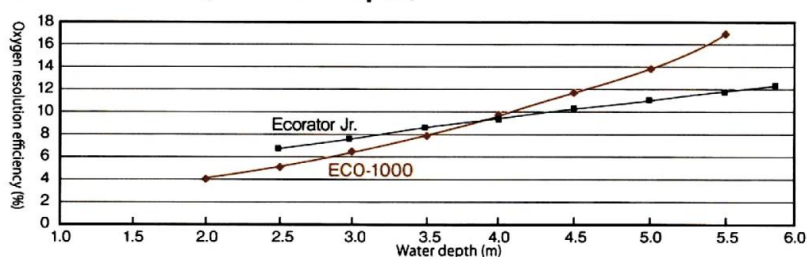


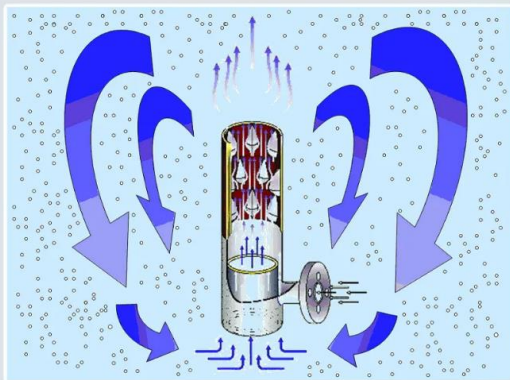
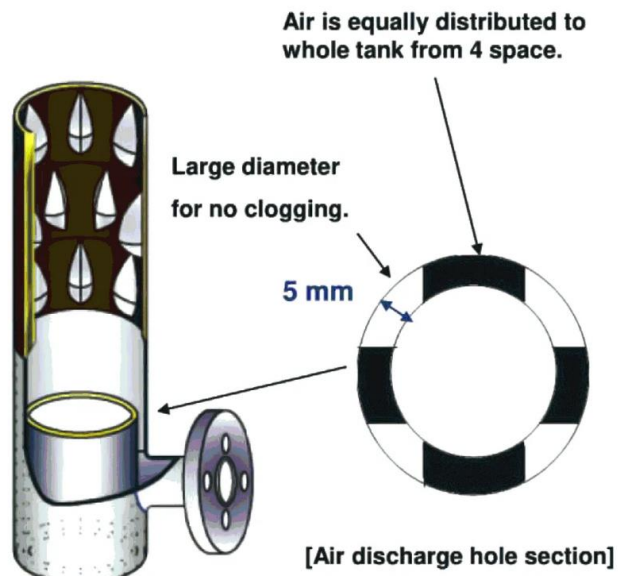
Flowrate distribution chart (Unit: cm/s)



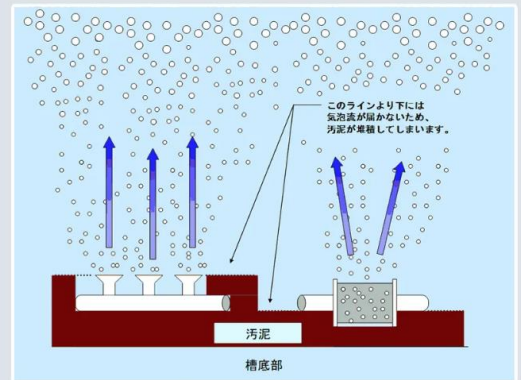
Flowrate vector chart (Unit: cm/s)

SEIKA Ecorator oxygen transfer rate (vs. water depth)





Ecorator VS Disc/Tube



High (Tube type or Disk type are replaced within 1-2 years)	Middle (Tube and Disc is replaced within 2-4 years)	Low (Tube and Disc is replaced within 4 years)
PAPER Food Textile Industrial Park Slaughterhouse Semiconductor Chemical Iron and Steel		Sewer
☑ Hydrogen Peroxide(H2O2) ☑ Starch ☑ High BOD (about 5000 mg/L~) ☑ High MLSS (about 10000 mg/L~) ☑ High N-hexane (Animal and Vegetable Oil and Fat, Surfactant etc.) ☑ Solvents (Organic Solvents etc.)	☑ Textile Dregs, Pulp Dregs, any other coarse-grained materials ☑ BOD (about 1000~5000mg/L) ☑ MLSS (about 5000~10000mg/L) ☑ N-hexane (Amines, Dye Compound, Mineral Oils etc.)	☑ Low BOD (about less than 1000mg/L) ☑ Low MLSS(about less than 3000mg/L) ☑ No ☑ the left column(High and Middle)