

AERSYS

LOW-ENERGY AERATION SYSTEM

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Main Application

Treatment of contaminated groundwater and surface water:

☐ AERSYS-VOC

- Volatile Organic Compound (VOC) removal

☐ AERSYS-FCD

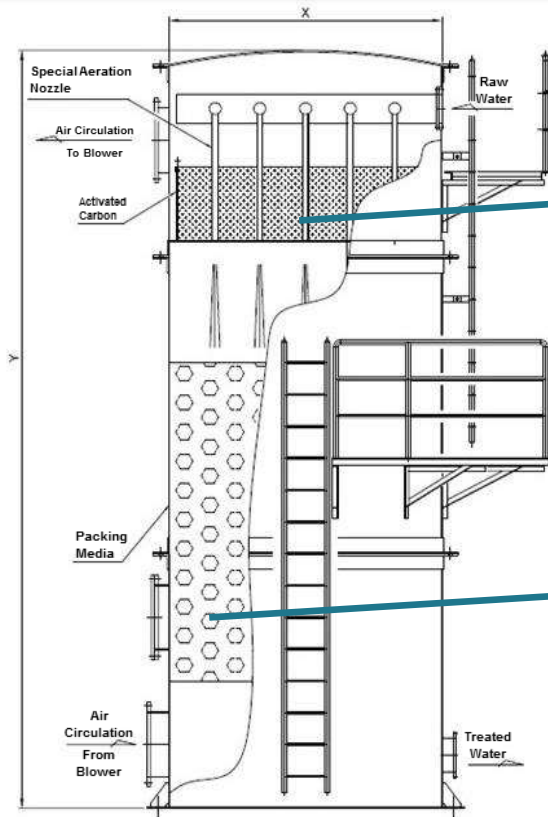
- Free Carbon Dioxide (FCD) treatment

Features

- **Innovative 2 stages treatment structure** by combining special aeration nozzle and blower
- Only requires blower air/water (A/W) ratio of 20 **to remove over 99% of contaminated substance**
- **Significant cost reduction** by saving energy
 - ➔ **Saving 60% blower energy** from the conventional system in the water condition of $20 \pm 2 \text{ C}^*$
- High treatment ability by air circulation system regardless of cold season *

* Data based on the pilot testing by AERSYS-VOC (From our research)

System Outline



* Picture of pilot plant

Special Aeration Nozzle



* Picture of pilot plant

High Performance Packing Media

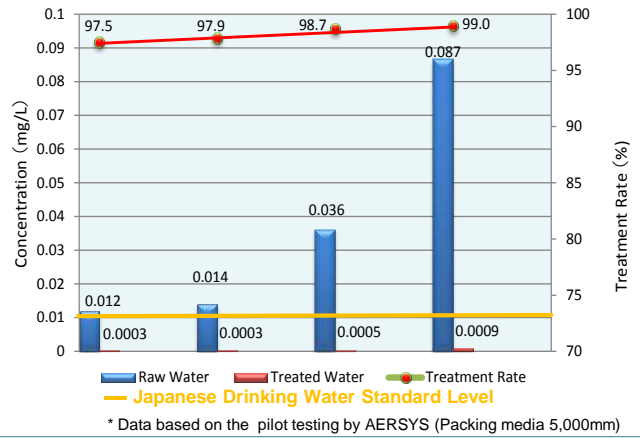
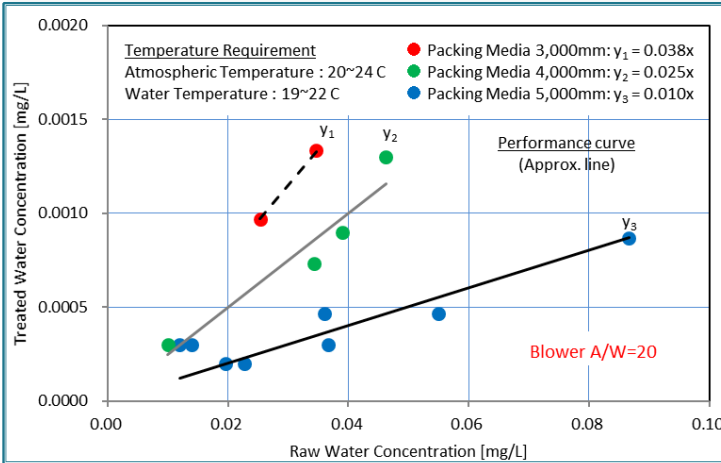
AERSYS-VOC Series

Model	Treatment Capacity		Diameter (X) mm	Height (Y) mm	Remarks
	m ³ /hr	m ³ /d			
VOC0890	42	1000	850	9000	Blower A/W=20 Raw Water Concentration: 0.100 mg/L
VOC1990	210	5000	1900	9000	
VOC2690	420	10000	2650	9000	

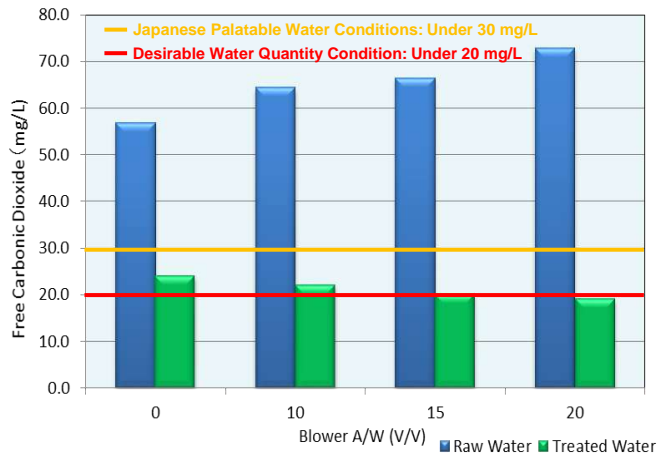
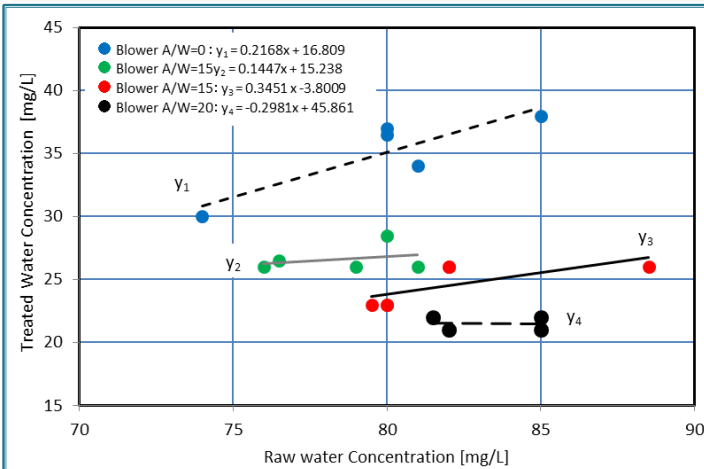
AERSYS-FCD Series

Model	Treatment Capacity		Diameter (X) mm	Height (Y) mm	Remarks
	m ³ /hr	m ³ /d			
FCD0870	42	1000	850	7000	Blower A/W=20 Raw Water Concentration: 80mg/L
FCD1970	210	5000	1900	7000	
FCD2670	420	10000	2650	7000	

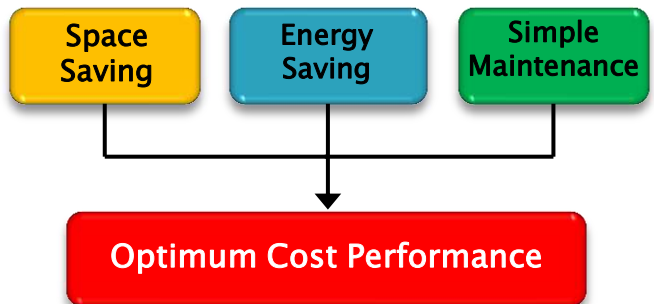
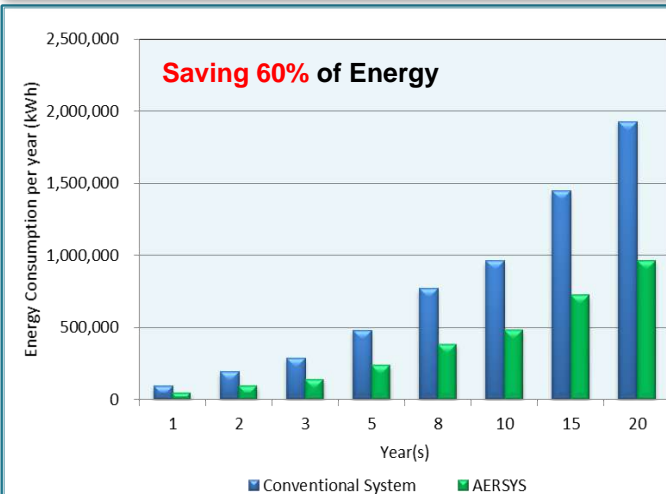
VOC (Trichloroethylene) removal performance by packing media height



FCD (Free Carbon Dioxide) removal performance by blower A/W



Energy Cost Comparison on AERSYS and Conventional System



* Data based on the pilot testing by AERSYS-VOC (From our research)



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Dalian Factory

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