

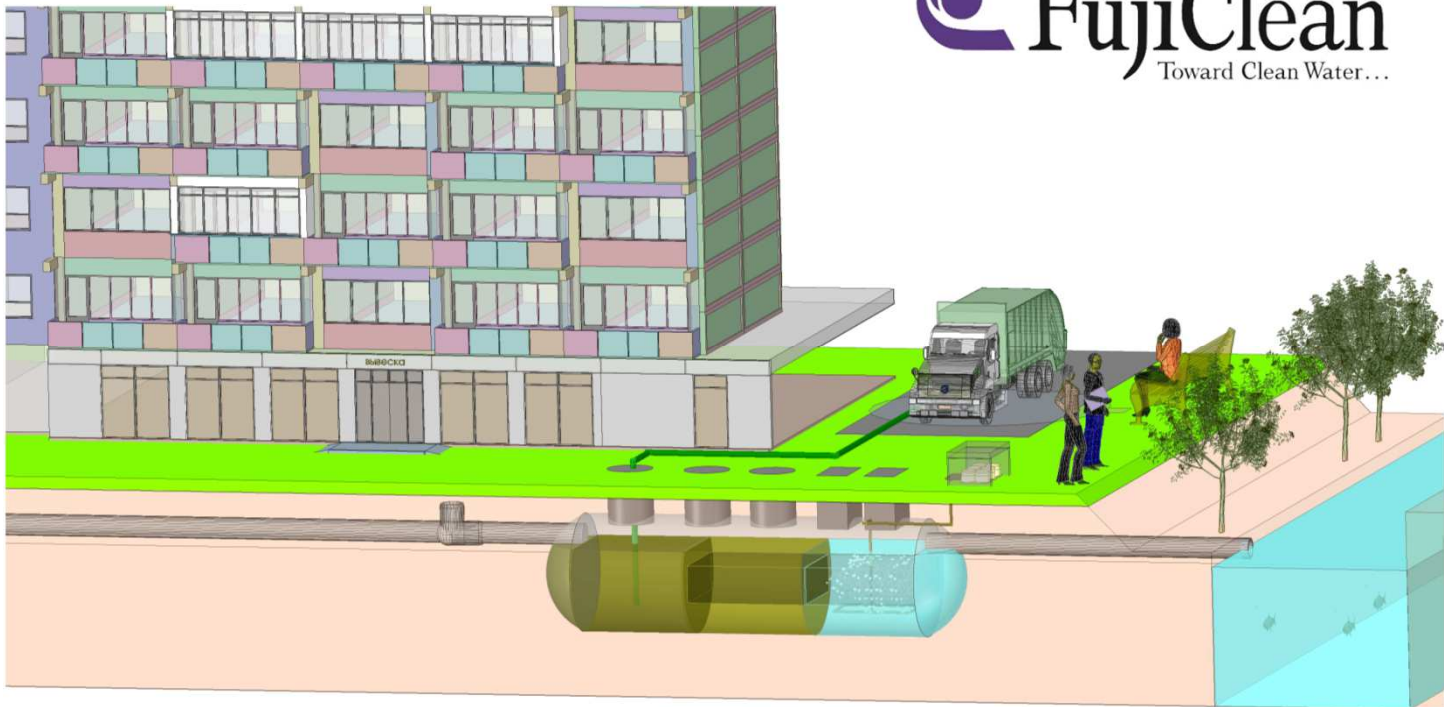


# FujiClean

Toward Clean Water...

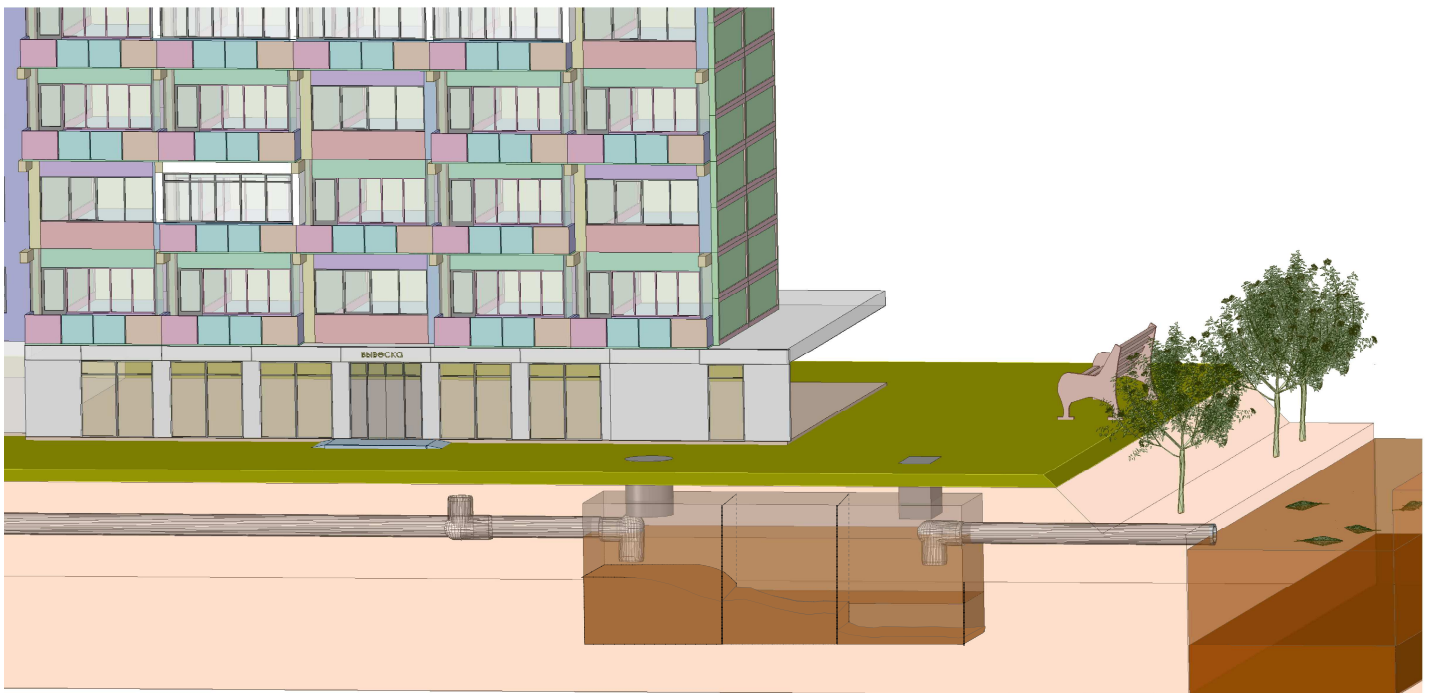


# FujiClean System enhances the value of facilities by improving the water environment



## In case a septic tank is introduced

**5 times higher organic & 10 times higher nitrogen affects the environment**



# Advantage of FujiClean system

FujiClean system has **certifications in 4 countries**; the most reliable system

**Well-organized production line and automatic molding** bring reliable products

**60 years R&D** on Fluid, Structure and biofilm contributes to the stable performance



Japan



US



Australia

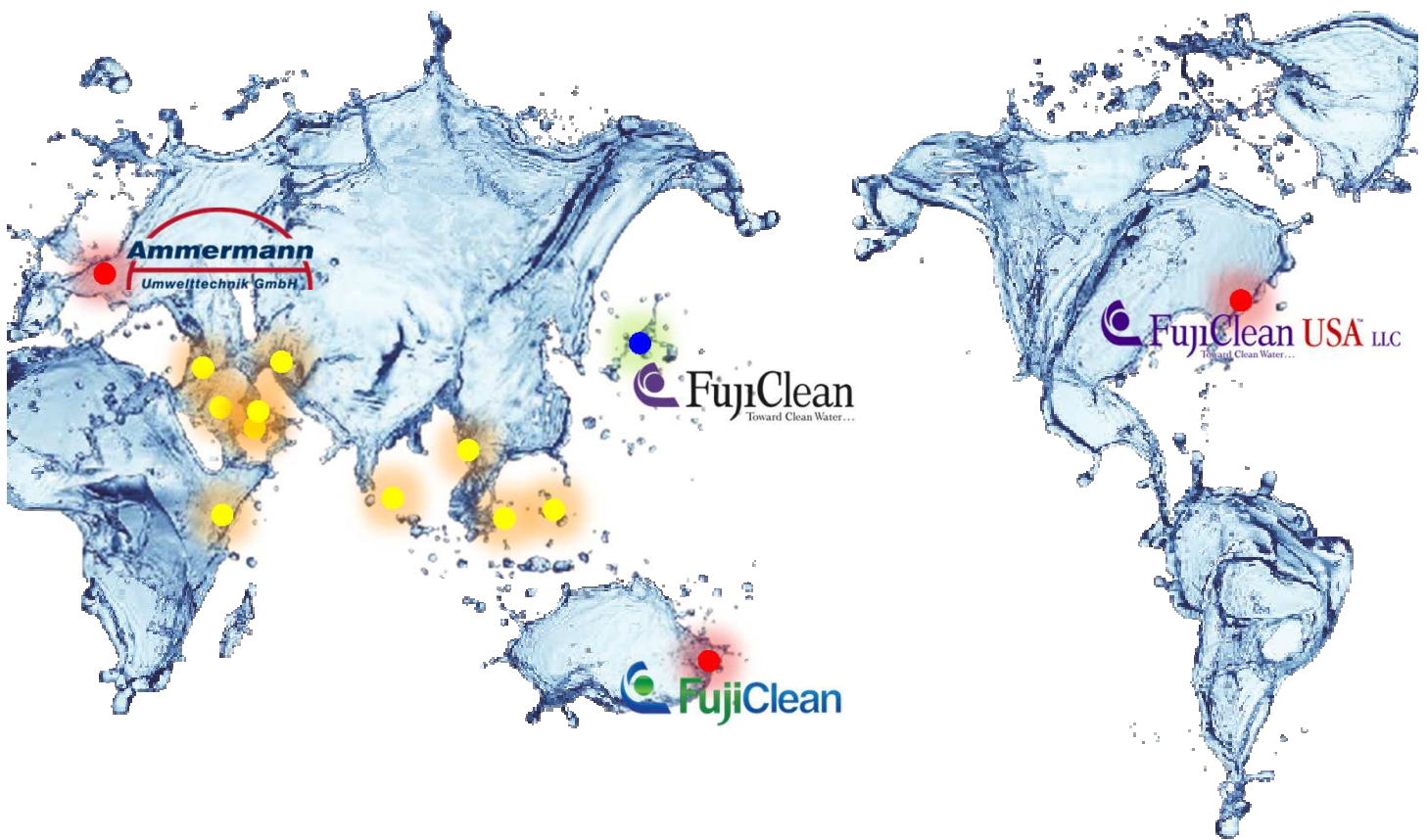


Germany



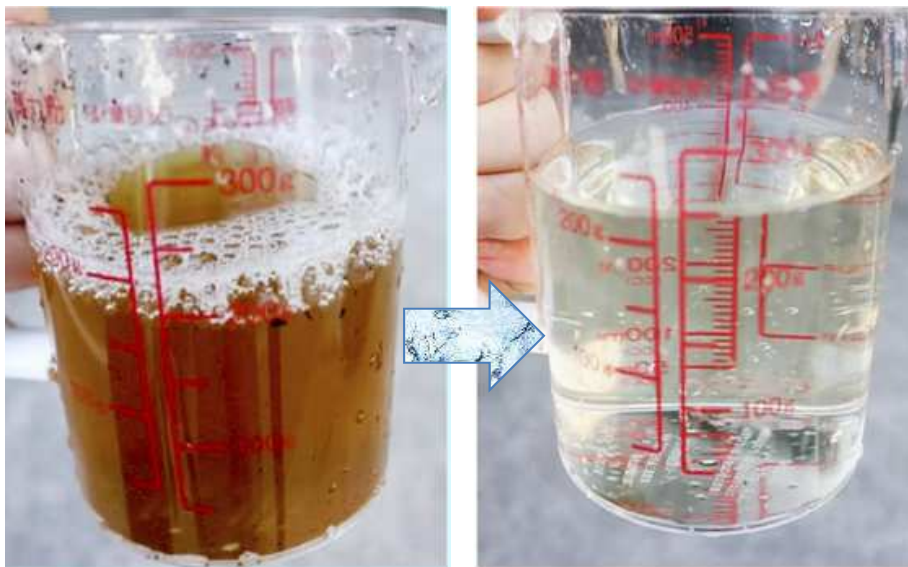
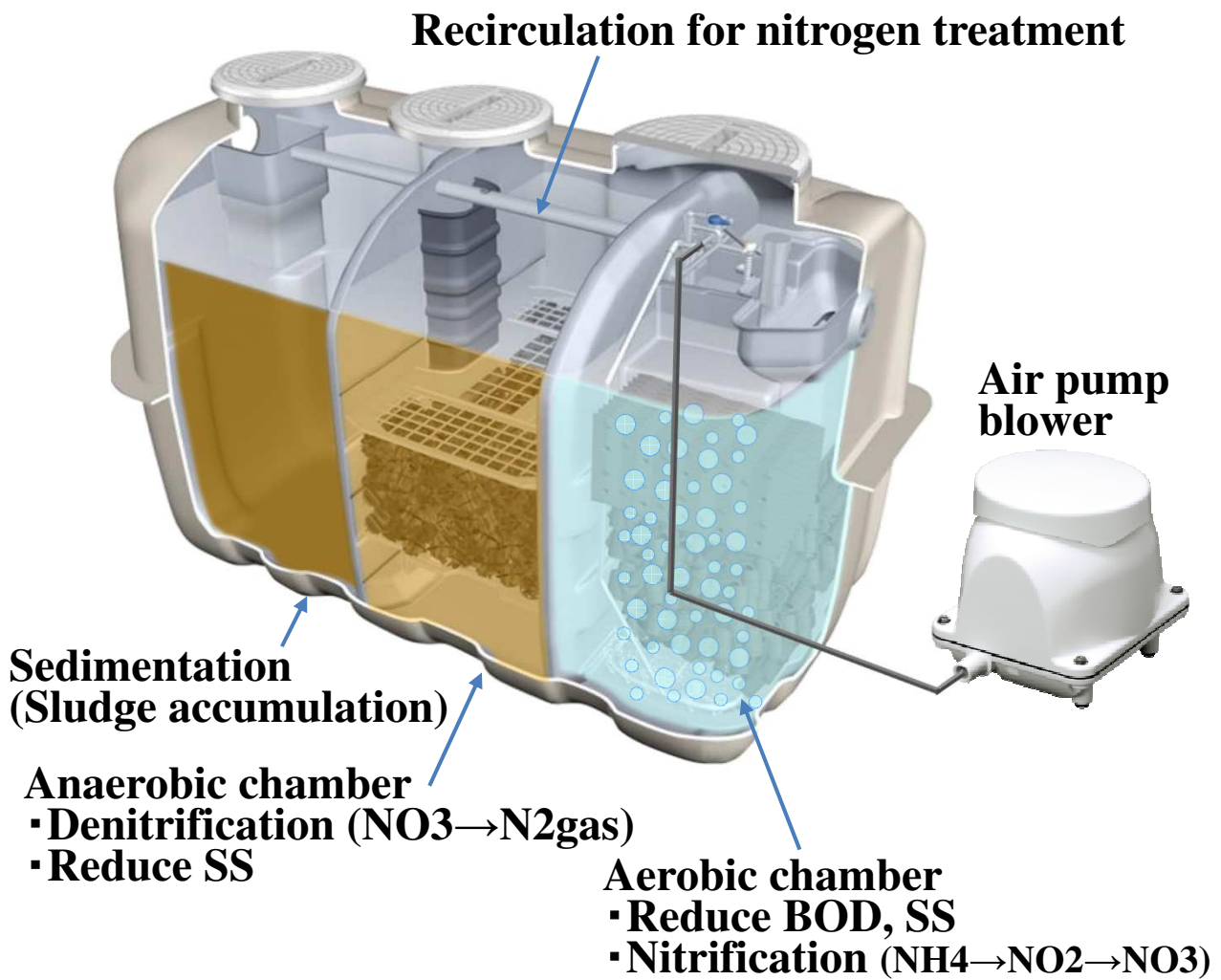
# Sales Network

- : Head Office
- : Subsidiary
- : Sales Distributor



US / Australia / Germany  
Vietnam / Philippines / Myanmar / Sri Lanka /  
Pakistan / UAE / Oman / Saudi Arabia / Jordan / Kenya

# Basic treatment process



BOD200mg/l

BOD20mg/l or less

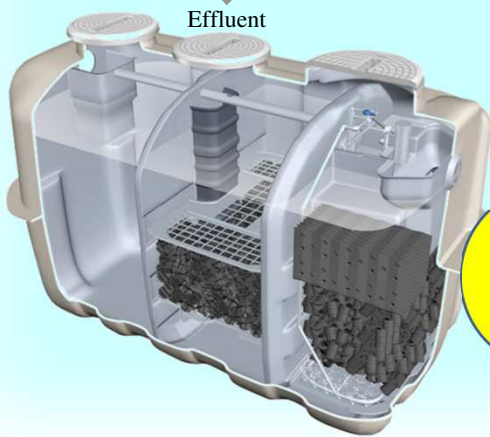
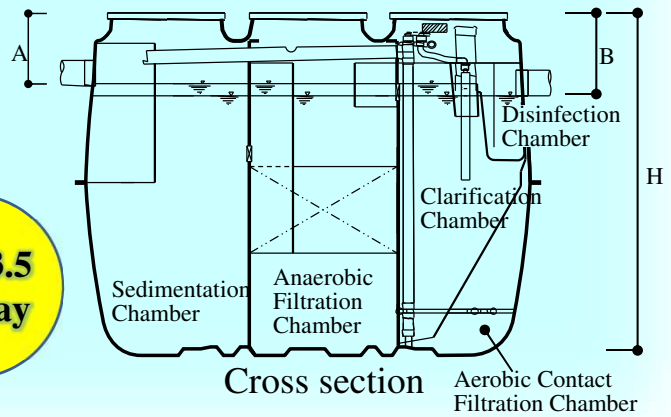
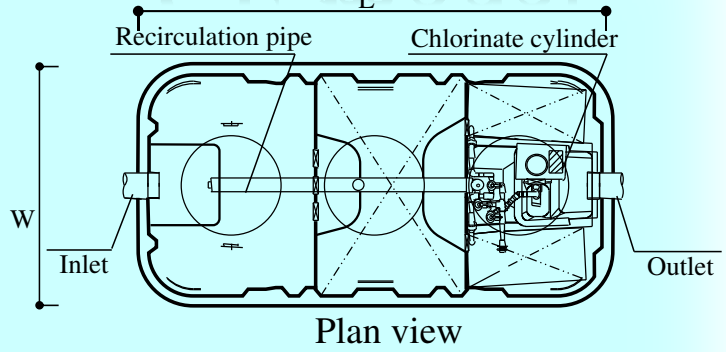
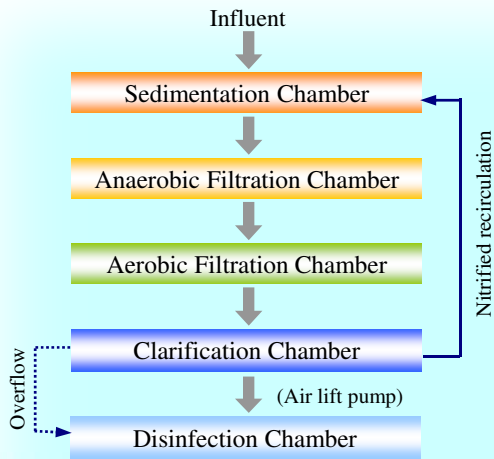
# FujiClean system can be installed under the vehicle passage with special structure



# FujiClean system can be installed above / semi above ground with protective structure



# CE model

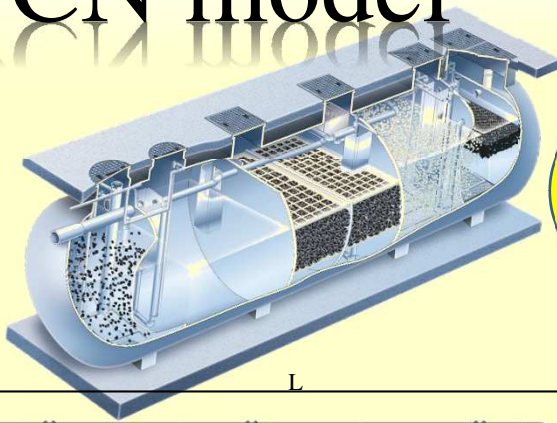


1~13.5  
m<sup>3</sup>/day

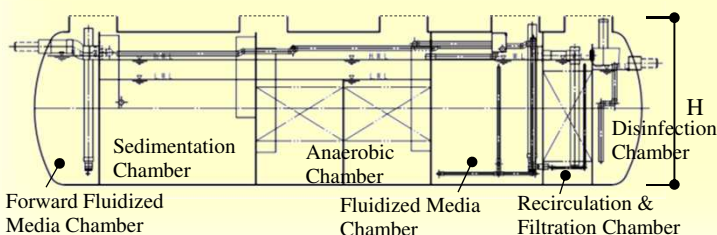
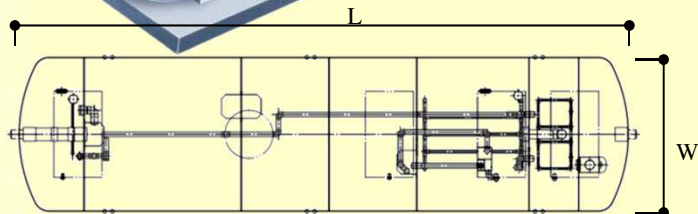
## Design Influent & Effluent loading

BOD: 200 → 20 mg/L  
 SS: 160 → 20 mg/L  
 T-N: 50 → 20 mg/L

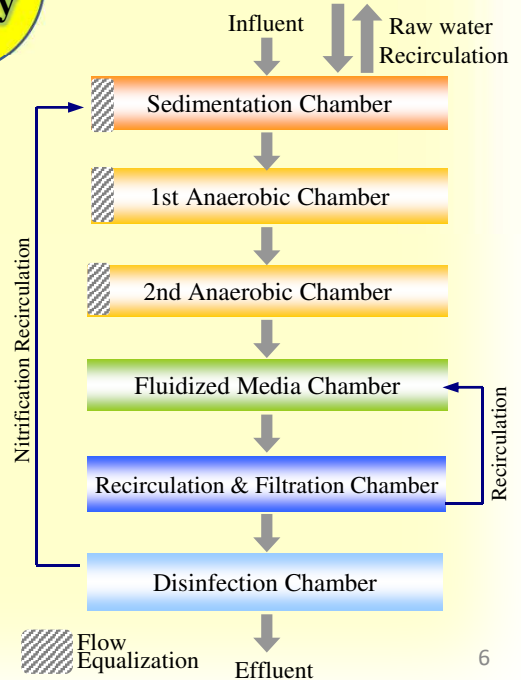
# PCN model



10~20  
m<sup>3</sup>/day

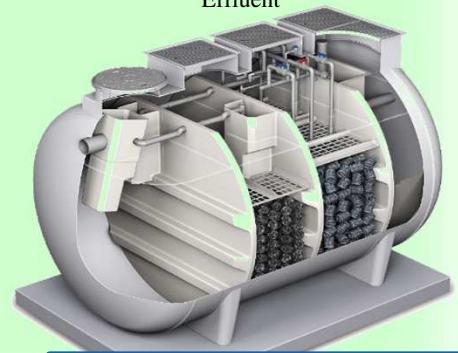
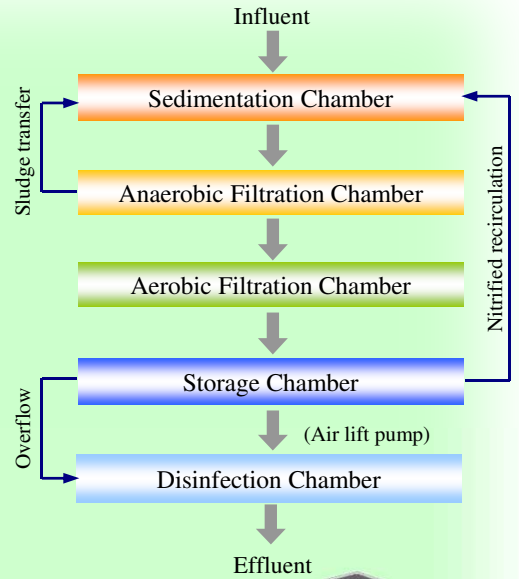
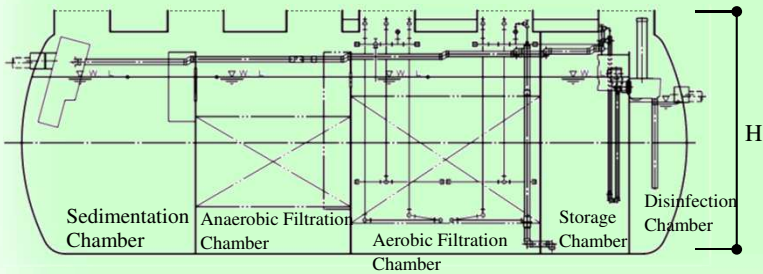
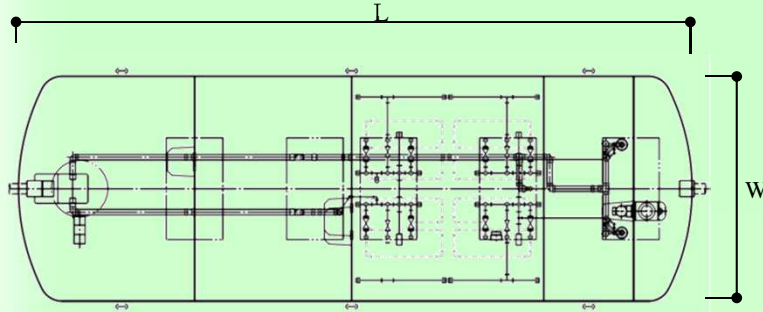


## Forward Fluidized Media Chamber



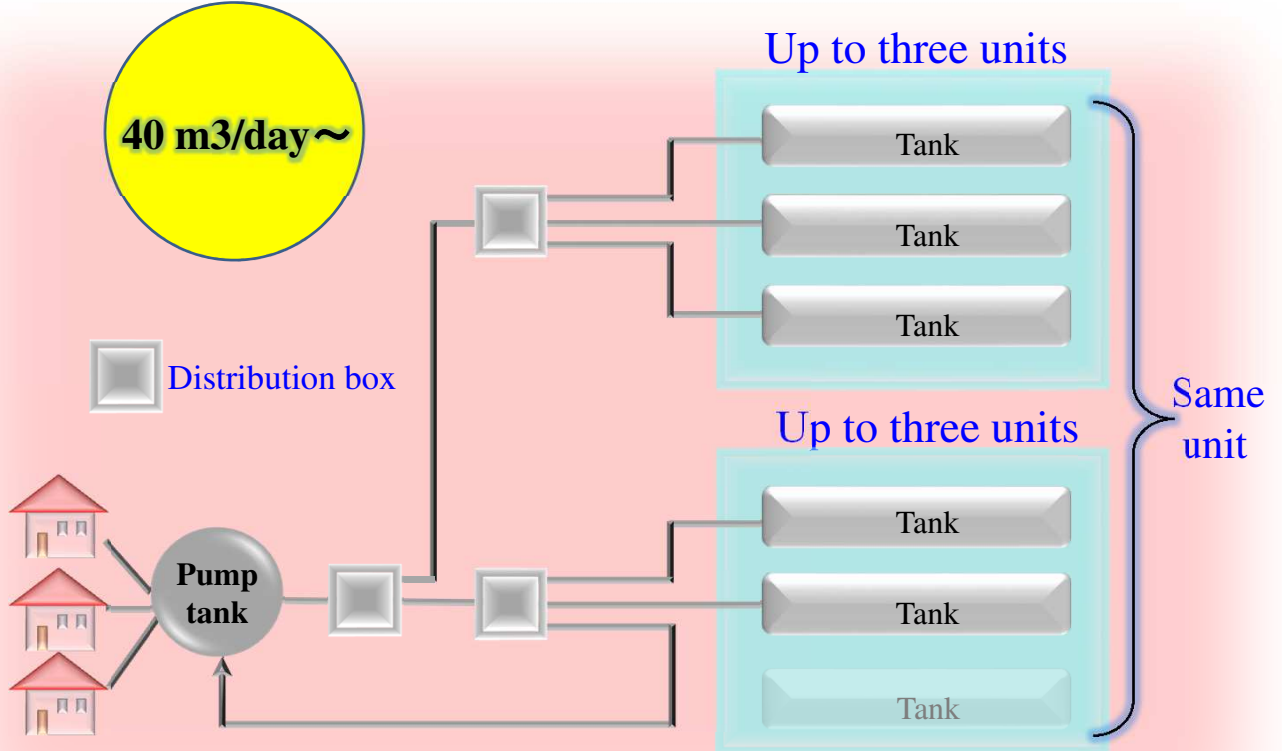
# PV model

20~40 m<sup>3</sup>/day



Design Influent & Effluent loading  
Testing stage

40 m<sup>3</sup>/day~





# Specifications

## Capsule type model

Model Name		CE 5	CE 7	CE 10	CE 14	CE 18	CE 21	CE 25	CE 30
Design Hydraulic Loading(m <sup>3</sup> /day)		1	1.4	2	2.8	3.6	4.2	5	6
Capacity (m <sup>3</sup> )	Sedimentation Chamber	0.749	1.048	1.502	2.113	2.725	3.169	3.767	4.520
	Anaerobic Filtration Chamber	0.751	1.052	1.498	2.106	2.719	3.177	3.757	4.511
	Aerobic Contact Filtration Chamber (FLUIDIZED MEDIA)	0.380	0.482	0.687	0.939	1.214	1.431	1.676	2.006
	Clarification Chamber (RECIRCULATION & FILTRATION )	0.168	0.237	0.339	0.470	0.604	0.703	0.858	1.009
	Disinfection Chamber	0.015		0.021	0.044			0.064	
<b>Total Volume</b>		2.063	2.834	4.047	5.672	7.306	8.524	10.122	12.110
Dimension (mm)	Max Width : W	1,110	1,250	1,440	1,750	1,840		1,990	
	Max Length : L	2,160	2,430	2,510	3,020	3,385	3,880	3,960	4,665
	Max Height : H	1,570	1,670	1,870	1,965	2,065		2,215	
	Inlet Invert : A	310(610)			400(700)				
	Outlet Invert : B	360(660)			450(750)				
	Inlet and outlet Pipe Size	dia. 100						dia. 125	
<b>Total Weight (kg)</b>		180	210	320	420	480	530	600	700
<b>Corresponding Air Pump Type</b>		MAC80R II × 1		MAC100R II × 1	MAC80R II × 2	MAC100R II × 2		MAC150R II × 2	
<b>Electric capacity (W) (50Hz)</b>		47	47	68	94	136	136	200	200
<b>Electric capacity (W) (60Hz)</b>		51	51	80	102	160	160	250	250
<b>Container type</b>		20/40'	20/40'	20/40'	20/40'	40'HC			
Qty to be put into a 40' container		10	4	4	3	3	3	3	2
Qty to be put into a 20' container		5	2	2	1	-			

## Tubular type model

Model Name		CE 67	PCN III-51W	PCN III-75W	PCN III-100W	PV II 100A	PV II 120B	PV II 140B	PV II 160B	PV II 180B	PV II 200B
Design Hydraulic Loading(m <sup>3</sup> /day)		13.5	10	15	20	20	24	28	32	36	40
Capacity (m <sup>3</sup> )	Forward Fluidized Media Chamber	-	1.41	1.98	2.89	-	-	-	-	-	-
	Sedimentation Chamber	9.99	3.87	5.66	7.5	5.39	6.38	7.37	8.37	9.36	10.35
	Anaerobic Filtration Chamber	10.02	4.44	6.32	8.32	5.36	6.23	7.22	8.46	9.49	10.36
	Aerobic Contact Filtration Chamber (FLUIDIZED MEDIA)	5.14	2.75	4.04	5.36	6.19	7.31	8.83	9.82	11.02	12.22
	Clarification Chamber (RECIRCULATION & FILTRATION )	2.25	1.78	1.78	1.78	2.95	3.29	3.66	4.09	4.57	5.05
Disinfection Chamber	-	1.27	1.27	1.27	0.41	1.68					
<b>Total Volume</b>		27.40	15.52	21.05	27.12	20.30	24.89	27.08	30.74	34.44	37.98
Dimension (mm)	Max Width : W	φ2,000	φ2,000			2500					
	Max Length : L	11,230	5,960	7,980	10,250	5,380	6,550	7,500	8,400	9,310	10,180
	Max Height : H	2,220	2,220			2,760					
	Inlet Invert : A	530(830)	530			700(1000)					
	Outlet Invert : B	-	830			1080(1380)					
	Inlet and outlet Pipe Size	dia. 150	dia. 150			In:dia. 150 Out:dia. 100	dia. 150				
<b>Total Weight (kg)</b>		2000	2100	2700	3200	2150	2560	2850	3240	3450	3730
<b>Corresponding Air Pump Type</b>		200R II × 4	200R II × 2 100R II × 2	200R II × 3 150R II × 2	200R II × 6	300R II × 4	300R II × 4	300R II × 5	300R II × 6	300R II × 6	300R II × 7
<b>Electric capacity (W) (50Hz)</b>		560	616	820	1,040	1,200	1,200	1,450	1,700	1,700	1,950
<b>Electric capacity (W) (60Hz)</b>		636	678	927	1,154	1,240	1,240	1,500	1,760	1,760	2,020
<b>Container type</b>		40'HC				Flat Rack Container or Roll on/ Roll off ship					
Qty to be put into a 40' container		1				1					
Qty to be put into a 20' container											

## Air pump blower

Air pump name	The number of cylinder	IP	Watt		db	Earth cable	Outlet pipe size(A)	Circuit
			50hz	60hz				
MAC80R II	1	54	47	51	40	Not required	13	Series
MAC100R II	1		68	80	45	Not required	13	
MAC120R II	1		86	101	45	Not required	20	
MAC150R II	2		100	125	45	Required	20	
MAC200R II	2		140	159	50	Required	20	
MAC250R II	2		186	226	52	Required	20	Parallel
MAC300R II	2		250	260	55	Required	20	

# Overview of the installation

Earth retaining work



Excavation work



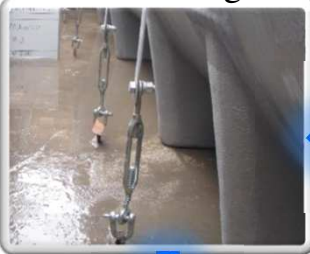
Fill gravel



Primary concrete work



Anti-floating kit



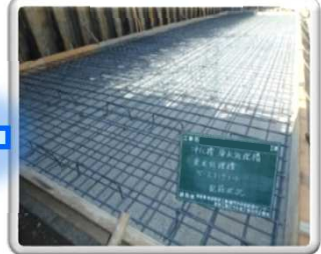
Installation



Base concrete work



Reinforcement work



Fill a tank with water



Backfilling



Air piping work



Reinforcement work



Control panel



Air pump installation



Slab concrete work



\*Only for PCN model

# Overview of the Maintenance

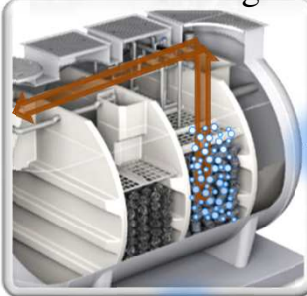
Check effluent water condition.



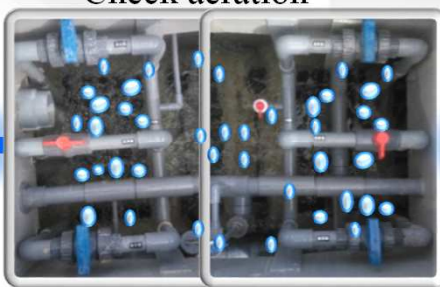
Sludge thickness check



Backwashing



Check aeration



Sludge removal



Few times a year

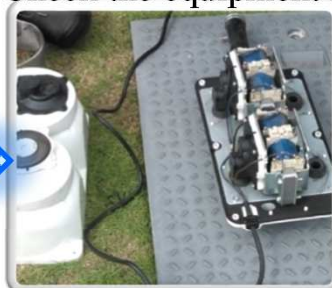
Adjust water transfer  
(Air lift pumps)



Cleaning



Check the equipment



Check chlorine tablet

