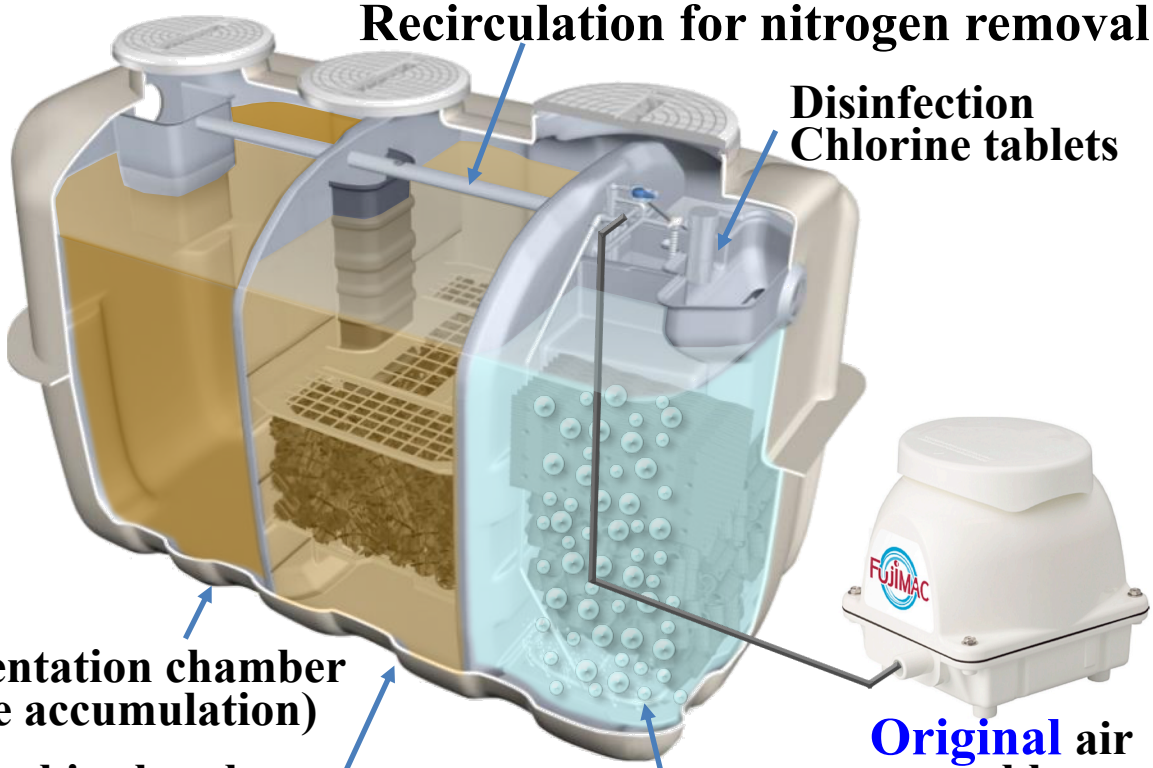
Onsite Wastewater Treatment System



FujiClean

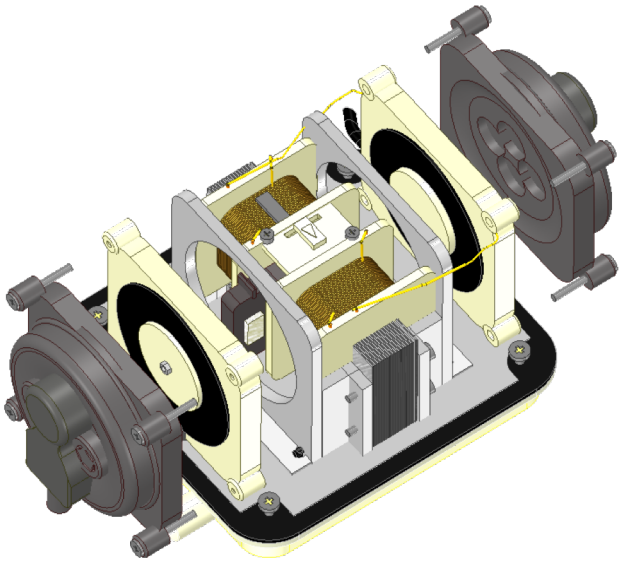
1-16-15, Marunouchi, Naka, Nagoya, Aichi, JAPAN

No.1 market share in Japan



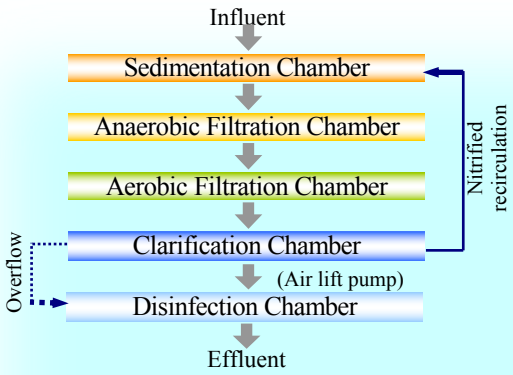
Video for the
treatment process

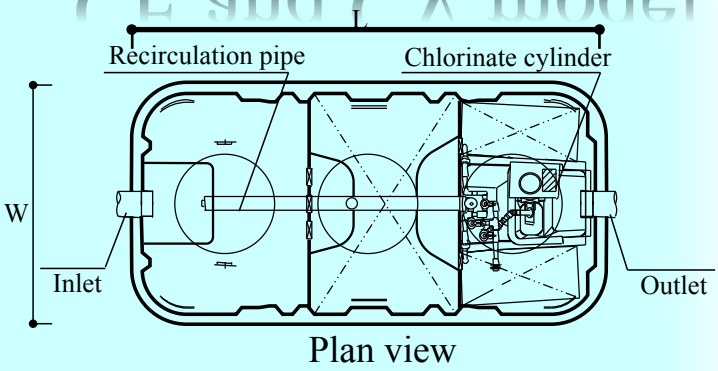




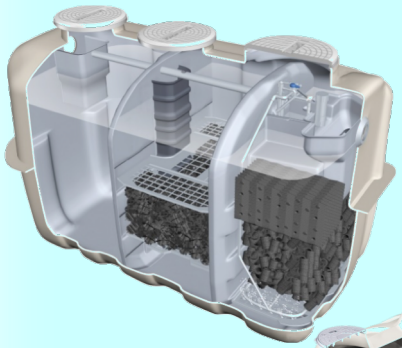
How the air
pump blower works

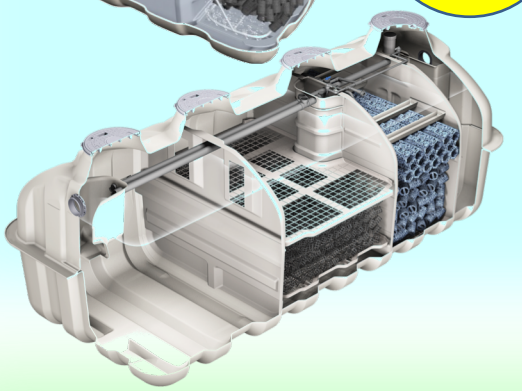
CE and CV model



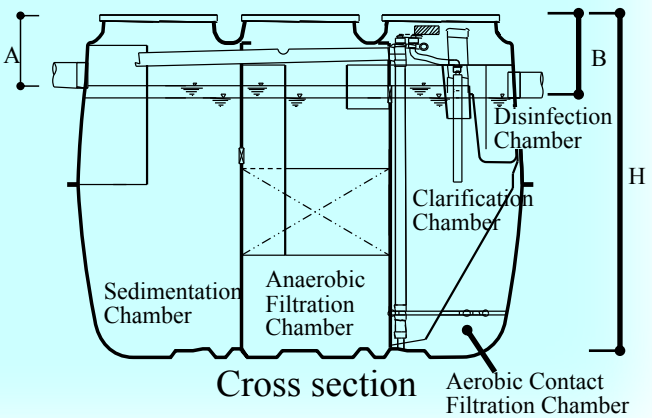


Plan view





1.0 to 2.0 m3/day

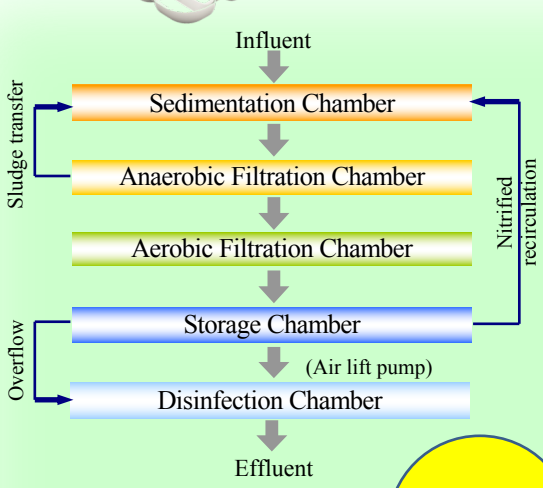


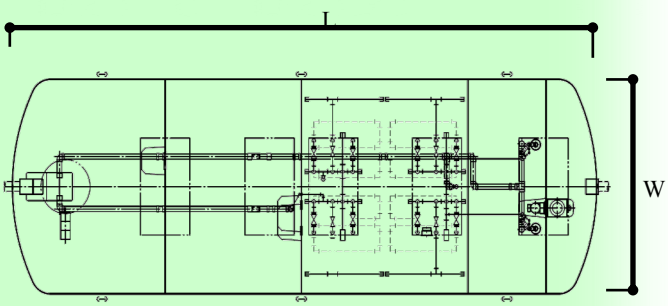
Cross section

Influent & Effluent design

BOD:200 → 20 mg/L
SS:160 → 20 mg/L
T-N:45 → 20 mg/L

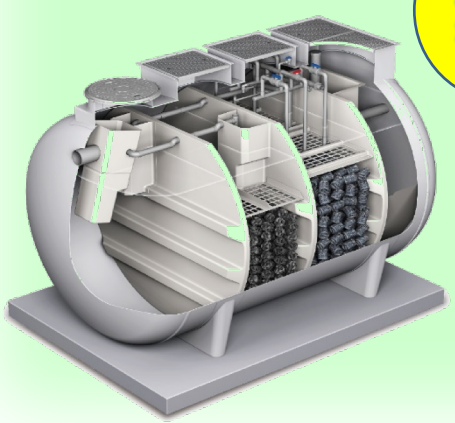
PV & PVN model

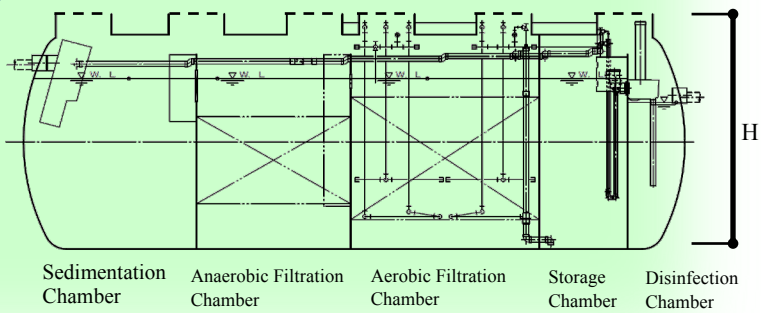




Plan view

16 to 40 m3/day





Cross section

Model Name		CE 5	CE 7	CE 10	PVN-80	PVN-160	PV Ⅱ 200B
Design Hydraulic Loading(m^3/day)		1	1.4	2.0	16.0	32.0	40.0
Capacity (m^3)	Sedimentation Chamber	0.749	1.048	1.502	4.052	8.053	10.35
	Anaerobic Filtration Chamber	0.751	1.052	1.498	4.061	8.062	10.36
	Aerobic Contact Filtration Chamber (FLUIDIZED MEDIA)	0.380	0.482	0.687	4.788	9.517	12.22
	Clarification Chamber (RECIRCULATION & FILTERATION)	0.168	0.237	0.339	1.927	3.801	5.05
	Disinfection Chamber	0.015		0.021	1.289	1.289	1.68
	Total Volume	2.063	2.834	4.047	16.117	30.72	39.66
Dimension (mm)	Max Width : W	1,110	1,250	1,440	φ2,150		φ2,500
	Max Length : L	2,160	2,430	2,510	5,770	10,680	10,180
	Max Height : H	1,570	1,670	1,870	2,700		2,760
	Inlet Invert : A	310(610)			550(900)		700(1,000)
	Outlet Invert : B	360(660)			980(1,330)		1,080(1,380)
	Inlet and outlet Pipe Size	dia. 100			dia. 100		
Total Weight (kg)		180	210	320	2,145	3,300	3,730
Corresponding Air blower Type		MAC80RII × 1		MAC100RII × 1	MAC300R Ⅱ × 2	MAC300RII × 4	MAC300R Ⅱ × 7
Electric capacity (W) (50Hz)		47		68	500	1,000	1,950
Electric capacity (W) (60Hz)		51		80	520	1,040	2,020
Container type		20'/40'	20'/40'	20'/40'	40'HC		Flat Rack Container
Qty to be put into a 40' container		10	4	4	1	1	1
Qty to be put into a 20' container		5	2	2	-	-	-

Model Name		CV 14	CV 18	CV 21	CV 25	CV 30	CV 35	CV 42	CV 50
Design Hydraulic Loading(m^3/day)		2.8	3.6	4.2	5.0	6.0	7.0	8.4	10.0
Capacity (m^3)	Sedimentation Chamber	1.332	1.723	2.009	2.375	2.850	3.332	3.990	4.750
	Anaerobic Filtration Chamber	1.335	1.718	2.007	2.375	2.850	3.325	3.990	4.750
	Aerobic Contact Filtration Chamber (FLUIDIZED MEDIA)	0.83	1.139	1.331	1.570	1.815	2.007	2.520	2.962
	Clarification Chamber (RECIRCULATION & FILTERATION)	0.469	0.164	0.698	0.846	0.976	1.145	1.381	1.625
	Disinfection Chamber	0.030	0.053			0.073		0.105	
	Total Volume	3.996	5.247	6.098	7.219	8.564	9.952	11.986	14.192
Dimension (mm)	Max Width : W	1,680	1,750		2,100			2,200	
	Max Length : L	2,650	3,380	3,880	3,370	3,940	4,530	4,550	5,280
	Max Height : H	1,660			1,860			2,110	
	Inlet Invert : A	400			450			500	
	Outlet Invert : B	500			550			600	
	Inlet and outlet Pipe Size	dia. 125							
Total Weight (kg)		290	330	390	510	590	750	850	990
Corresponding Air blower Type		MAC60R Ⅱ × 2	MAC80R Ⅱ × 2	MAC100R Ⅱ × 2		MAC150R Ⅱ × 2		MAC200R Ⅱ × 2	
Electric capacity (W) (50Hz)		70	94	136		200		280	
Electric capacity (W) (60Hz)		76	102	160		250		318	
Container type		20'/40'						40'HC	
Qty to be put into a 40' container		4	3	3	3	2	2	2	2
Qty to be put into a 20' container		2	1	1	1	1	1	-	

Air blower name	Air flow volume (L/min)	Pressure range (kPa)	IP	Watt		db	Volt	Weight(kg)	Outlet pipe size(A)	Circuit	Packing size(mm)
				50hz	60hz						
MAC60R Ⅱ	60	12 - 18	54	35	38	35	230 - 240V ±6%	5	13	Series	175W*245L*220H
MAC80R Ⅱ	80			47	51	40		5	13		
MAC100R Ⅱ	100	14 - 22		68	80	45		5	13		
MAC120R Ⅱ	120			86	101	45		5	20		
MAC150R Ⅱ	150	16 - 24		100	125	45		9	20	Parallel	210W*395L*240H
MAC200R Ⅱ	200			140	159	50		9	20		
MAC250R Ⅱ	250			186	226	52		9	20		
MAC300R Ⅱ	300			250	260	55		9	20		