

SATS : AMC Series



**Large Biological Wastewater Treatment
CMAS System
(Completely Mixed Activated Sludge System)**

SATS Large Biological Wastewater Treatment Plants

Biological Wastewater Treatment with Completely Mixed Activated Sludge (CMAS)

With years of expertise in designing wastewater treatment, PP. has developed the AMC Series using a completely mixed activated sludge (CMAS) system for treating wastewater at a relatively constant or low variable flow rate of 20-200 cubic meters per day.

The AMC Series' key feature is the aeration tank which provides a thorough mixing of wastewater and sludge. The system can well withstand shock loads due to a uniform population of aerobic microorganisms in the tank produced by the even distribution of wastewater as well as the stable condition of the aeration tank environment.

AMC Series

(Flow rate 20 ~ 200 m³/Day)
is suitable for domestic wastewater treatment of all activities.

AMC Series's highlight feature offer superior wastewater treatment

1. Solid Separation Process

- > The process is designed to collect and store wastewater before discharging to equalization process in order to reduce concentration of BOD
- > To separate and store both heavy & light sludge in the wastewater.
- > To ferment excess sludge before disposing of it or using it as fertilizer.

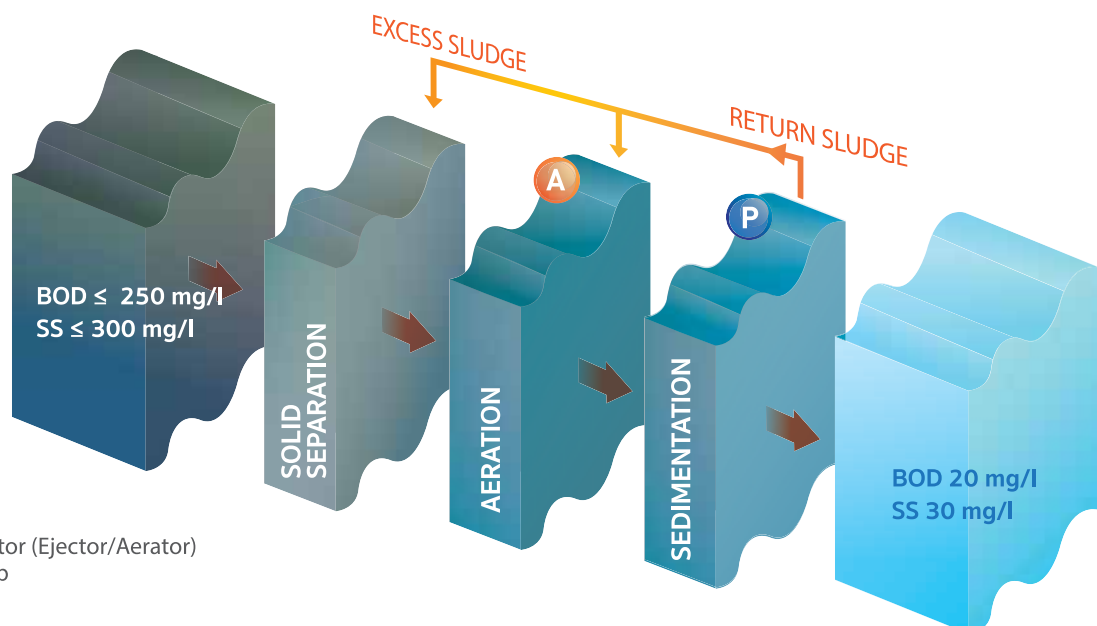
2. Aeration Process

- > A biological wastewater treatment process with aerobic bacteria is recognized as the most efficient wastewater treatment method.
- > A submersible ejector adds oxygen to the water and ensures the water and oxygen are thoroughly mixed in order to create an environment favorable to microbial growth.

3. Sedimentation Process

- > This process separates treated water from sludge and discharges it to drainage system.
- > Sludge recirculation will help draw sludge at the bottom of a slope tank to aeration tank to activate sludge. Excess sludge will be pumped into solid separation tank.

Aeromax : AMC



Remark: All processes are in compliance with building effluent standards stipulated in the Ministry of Science Technology and Environment's announcement under Section 55 of the Promotion and Conservation of National Environmental Quality Act B.E. 2535



Specifications	AMC-20	AMC-25	AMC-30	AMC-40	AMC-50	AMC-60	AMC-70
Description							
Flow rate (m ³ /day)	20	25	30	40	50	60	70
BOD influent (mg./l)	250	250	250	250	250	250	250
BOD effluent (mg./l)	20	20	20	20	20	20	20
Number of Users							
Residence (Person)	100	125	150	200	250	300	350
Office (Person)	300	375	450	600	750	900	1050
Factory (Person)	400	500	600	800	1000	1200	1400
Education Institute (Person)	400	500	600	800	1000	1200	1400
Hotel (Room)	20	25	30	40	50	60	70
Hospital (Bed)	20	25	30	40	50	60	70
Capacity (m³)							
Solid Separation and Equalization Part (m ³)	6.68	7.37	8.48	10.81	13.83	16.62	18.95
Aerated Part	6.34	7.25	6.82	10.34	11.45	13.65	16.29
Sedimentation Part	2.30	2.30	7.68	7.68	7.68	7.68	7.68
Total Volume of a AMC Series Tank	15.32	16.92	22.98	28.83	32.96	37.95	42.92
Weight of Empty Tank (kg)	920	990	1,670	1,990	2,220	2,490	2,770
Size (Meter)							
Diameter of the 1 st and 2 nd Tanks	1.80	1.80	2.50	2.50	2.50	2.50	2.50
Length of the 1 st tank	7.20	7.90	6.10	7.40	8.30	9.40	10.50
Length of the 2 nd tank							
Height of the 1 st and 2 nd Tanks	2.0	2.0	2.0	2.80	2.80	2.80	2.80
Size of Inlet and Outlet Pipe (Inch)		6					
Inlet and Outlet Pipe	6	1	6	6	6	6	6
Air Suction Pipe	1	2	1 ¼	1 ¼	1 ¼	1 ¼	2
Ventilation Pipe	2		2	2	2	2	2



AMC-80	AMC-90	AMC-100	AMC-110	AMC-120	AMC-130	AMC-140	AMC-150	AMC-160	AMC-180	AMC-200
80	90	100	110	120	130	140	150	160	180	200
250	250	250	250	250	250	250	250	250	250	250
20	20	20	20	20	20	20	20	20	20	20
400	450	500	550	600	650	700	750	800	900	1000
1200	1350	1500	1660	1800	1950	2100	2250	2400	2700	3000
1600	1800	2000	2200	2400	2600	2800	3000	3200	3600	4000
1600	1800	2000	2200	2400	2600	2800	3000	3200	3600	4000
80	90	100	110	120	130	140	150	160	180	200
80	90	100	110	120	130	140	150	160	180	200
21.51	22.74	25.28	27.75	30.38	32.58	35.21	37.84	40.48	45.31	50.13
18.49	22.54	25.27	27.75	30.38	32.58	35.21	37.84	40.48	45.31	50.13
7.68	8.42	8.42	18.96	18.96	18.96	18.96	18.96	18.96	18.96	18.96
47.68	53.70	58.97	74.46	79.72	84.12	89.38	94.64	99.92	109.58	119.22
3,030	3,750	4,060	4,300	4,500	4,650	4,850	5,000	5,200	5,600	6,000
2.50	2.50	2.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
11.55	5.80	6.40	6.90	7.50	8.00	8.60	9.20	9.80	10.90	12.00
	8.10	8.75	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
2.80	2.80	2.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80
6	6	6	6	6	6	6	6	6	6	6
2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2

Remark : PP's sanitation engineers can give advice on the use of products and customize wastewater treatment tanks to meet client needs.

Premier Products Public Company Limited is Thailand's No. 1 in water systems and wastewater treatment systems.

Over the past 42 years, Premier Products PP. has been determined to improve wastewater quality in Thailand and is currently the leader in large- and small-scale wastewater treatment systems as well as other eco-friendly products. PP. continues to develop its products through investments in machinery and R&D in line with its commitments to expanding business and developing the quality of life of the Thai people simultaneously.

PP's wastewater treatment system can be installed even in areas where basic infrastructure for wastewater management is not available.

The company's products can treat wastewater from households, factories and all types of buildings in order to help preserve environment and water resources. PP offers a wide range of environmental products across Thailand and they have contributed to reducing pollution in rivers and water source for four decades.

As part of the wastewater treatment business, PP has developed high expertise in effluent treatment, increased the capability of its 'ready-to-install' wastewater treatment systems, and advanced its comprehensive wastewater management systems to ensure maximum benefits to customers.



Recommend related products

Maxfil, a water filter with a Membrane filtration system

With membrane filtration system, Maxfil, a high potential water filter, can eliminate iron, hardness, suspended solid, bacteria, virus and particles of metal ions. Maxfil is equipped with advanced technology manufactured by standard industrial factories.



Ultrafiltration



Reverse Osmosis

Tsurumi sewage pump & Equipment

PP. is the country's first supplier of Tsurumi Sewage Pump with No.1 sales in the market. The firm also provides all types of wastewater treatment equipment which come along with installation and maintenanceservices by veteran technicians.



Aerator



Tsurumi Sewage Pump

Waste Water Treatment System Renovation

PP. provides design and maintenance services for all types of existing problematic wastewater treatment systems. The services will be adjusted to suit each client's demand by teams of experienced engineers and technicians who are ready to resolve customer problems.





Manufactured, distributed and serviced by
Premier Products Public Company Limited
Head Office: No.2 Premier Place,
Soi. Premier 2, Srinakarin Road, Nong Bon,
Pravet, Bangkok, 10250
Tel: 02-301-2100-1
Fax: 02-398-1301

Northeastern Office

Khon Kaen
Tel. (043) 241-689
Fax. (043) 241-690

Contact us

Tel. : 0 2301 2223
www.premier-product.co.th

Northern Office

Chiang Mai
Tel. (053) 251-377-9
Fax. (053) 251-379

Southern Office

Phuket
Tel. (076) 608-642
Fax. (076) 608-643

Hat Yai

Tel. (074) 367-112-4, 237-591
Fax. (074) 367-111

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