Biorotor

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RBC BIOROTOR®

SEWAGE TREATMENT PLANT



Water Environment Federation®
Preserving & Enhancing the Global Water Environment
MEMBER ASSOCIATION
U S A

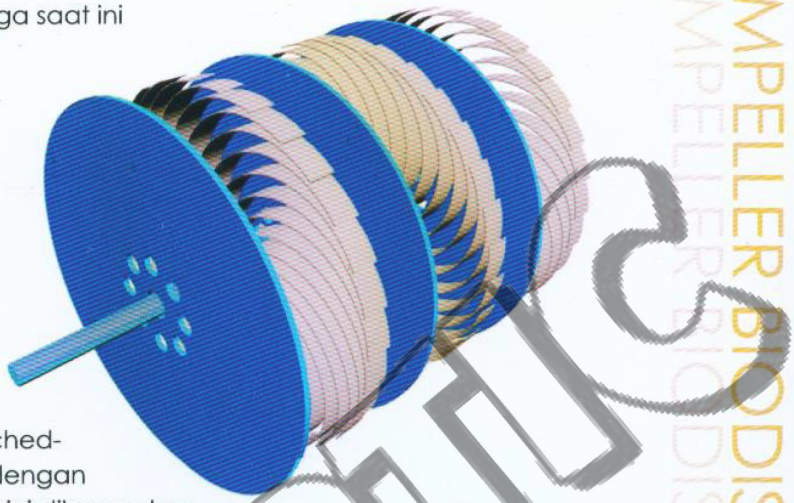
BIOSEPTIC
Wastewater Treatment System

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BIOROTOR

TEKNOLOGI pengolahan air limbah dengan sistem RBC sudah digunakan di Indonesia sejak tahun 1980. Hingga saat ini sistem RBC sudah beberapa kali mengalami penyempurnaan. Inovasi paling baru adalah perubahan bentuk IMPELLER BIODISC.



IMPELLER BIODISC

Bentuk IMPELLER BIODISC pertama kali di kembangkan di Eropa tahun 1990an, dan saat ini sudah dikembangkan di Indonesia. Perbedaan paling mendasar dari RBC sistem baru ini adalah cara pertumbuhan mikroorganisma.

RBC konvensional dikenal dengan sistem Attached-Film Growth (Biakan Lekat), kini digabungkan dengan sistem Suspended Growth (Biakan Terlarut), hal ini dikarenakan BENTUK BIODISC seperti IMPELLER. BIOROTOR merupakan gabungan kedua sistem diatas yang dinamakan Hybrid Growth,

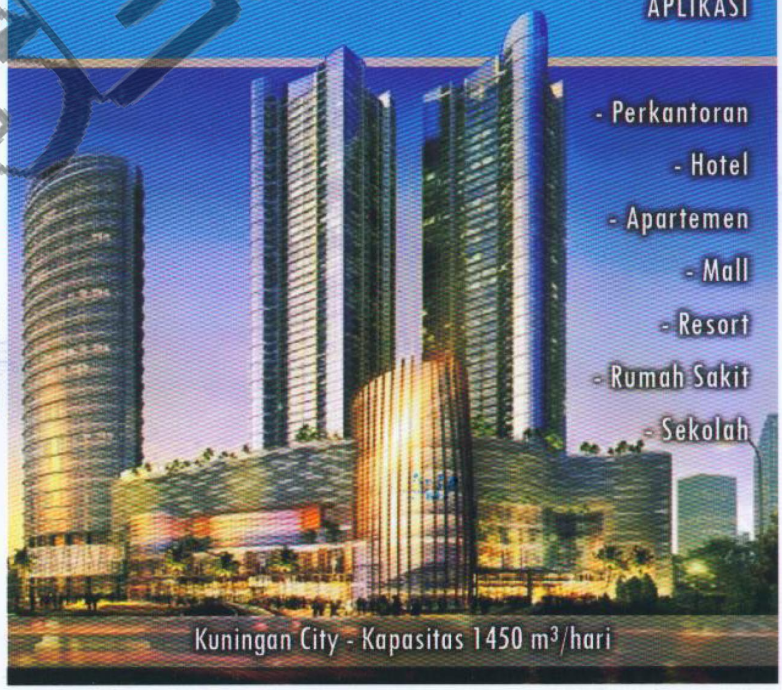
KEUNGGULAN TEKNIKAL

- Instalasi mudah dan cepat
- Tidak menimbulkan suara bising
- Bahan tangki Fibre glass, anti karat / korosif
- Perawatan sederhana

KEUNGGULAN BIAYA

- Pemakaian listrik rendah
- Biaya Instalasi rendah
- Biaya Perawatan rendah
- Hemat penggunaan lahan
- Siklus pembuangan lumpur jangka panjang

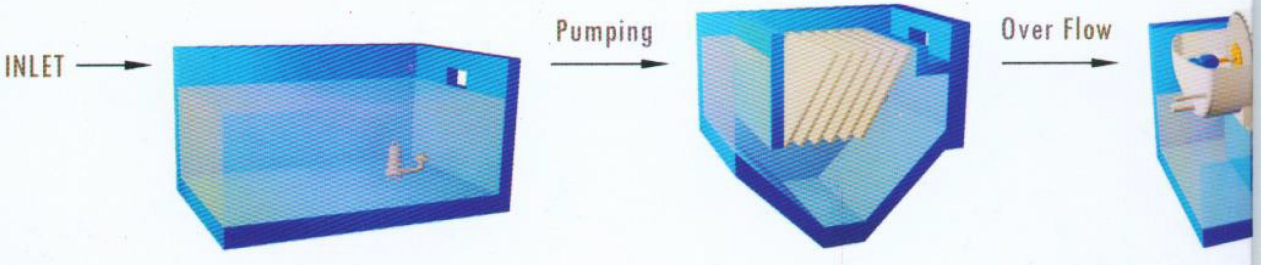
APLIKASI



- Perkantoran
- Hotel
- Apartemen
- Mall
- Resort
- Rumah Sakit
- Sekolah

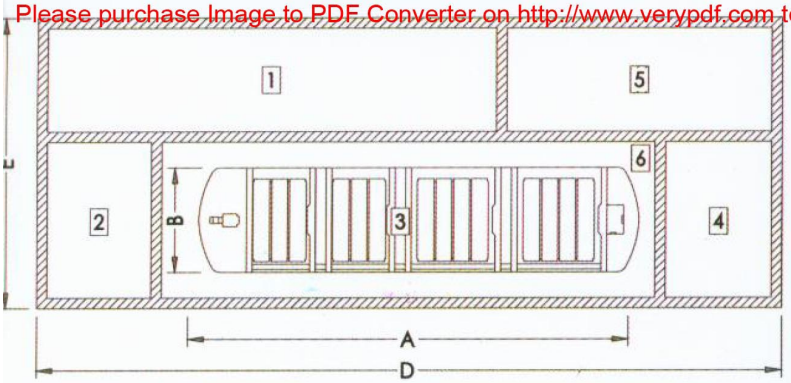
Kuningan City - Kapasitas 1450 m^3/hari

FLOW CHART BIOROTOR

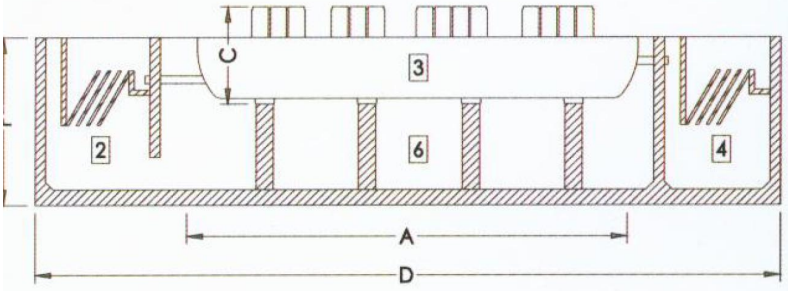


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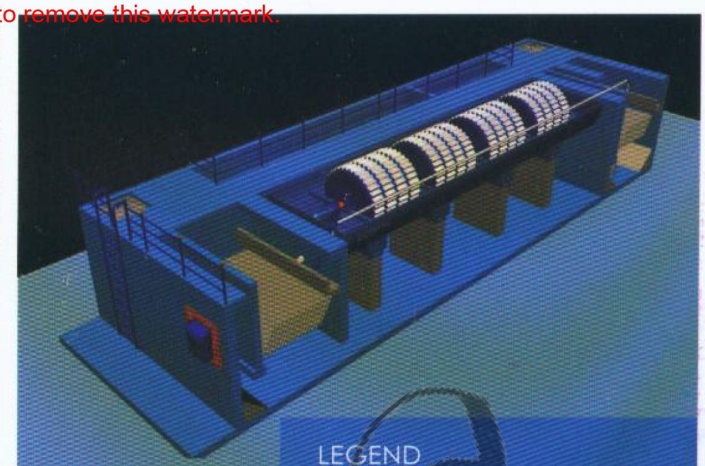
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TOP VIEW



SIDE VIEW



LEGEND

1 : Equalizing Tank
2 : Primary Settlement Tank
3 : Biorotor
4 : Final Settlement Tank
5 : Effluent Tank
6 : Sludge Holding Tank

SPECIFICATIONS

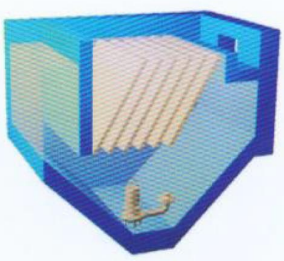
TYPE	CAPACITY *) m³/day	MOTOR Kw	WEIGHT Tonnes	ROTOR DIMENSION mm			TANK DIMENSION **) mm		
				A	B	C	D	E	F
ROTOR - 10	10	0.25	0.95	2.95	2.00	1.85	6.40	3.50	2.50
ROTOR - 20	20	0.25	1.10	4.20	2.00	1.85	8.00	3.50	2.50
ROTOR - 30	30	0.37	1.25	4.35	2.00	1.85	8.20	3.50	2.50
ROTOR - 40	40	0.55	1.35	4.60	2.00	1.85	8.40	3.50	2.50
ROTOR - 50	50	0.55	1.40	5.40	2.00	1.85	9.00	3.50	2.50
ROTOR - 60	60	0.55	1.55	5.50	2.00	1.85	8.90	4.00	2.50
ROTOR - 70	70	0.75	1.70	6.50	2.00	1.85	9.90	4.00	2.50
ROTOR - 80	80	0.75	1.85	7.00	2.00	1.85	11.00	4.00	2.50
ROTOR - 90	90	0.75	2.00	7.80	2.00	1.85	11.80	4.50	2.50
ROTOR - 100	100	0.75	2.15	8.15	2.00	1.85	12.00	4.50	2.50
ROTOR - 110	110	0.75	2.30	9.15	2.00	1.85	13.40	4.50	2.50
ROTOR - 120	120	1.10	2.35	9.80	2.00	1.85	14.00	4.50	2.50
ROTOR - 130	130	1.10	2.45	9.90	2.00	1.85	14.60	5.00	2.50
ROTOR - 140	140	1.10	2.60	10.00	2.00	1.85	15.00	5.00	2.50
ROTOR - 150	150	1.10	2.75	11.40	2.00	1.85	16.60	5.00	2.50
ROTOR - 160	160	1.10	2.90	12.00	2.00	1.85	17.50	5.00	2.50
ROTOR - 170	170	1.50	3.05	12.40	2.00	1.85	18.00	5.00	2.50
ROTOR - 180	180	1.50	3.20	13.00	2.00	1.85	19.00	5.00	2.50
ROTOR - 190	190	1.50	3.35	13.40	2.00	1.85	19.60	5.00	2.50
ROTOR - 200	200	1.50	3.55	13.50	2.00	1.85	20.00	5.00	2.50

*) Asumsi BOD inlet 300 ppm | **) Termasuk bak Equalizing dan bak Effluent

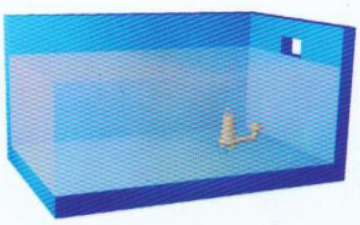


Over Flow

Sludge Return (Pumping)



Over Flow



OUTLET (Pumping)

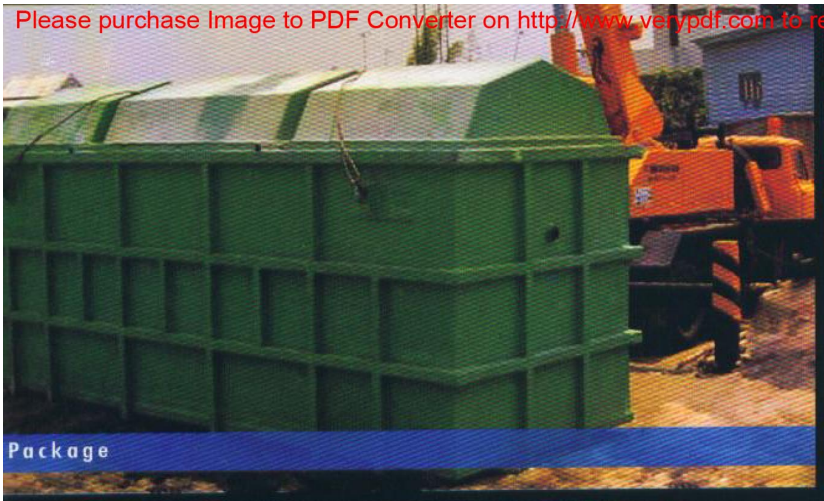
BIOROTOR
SLUDGE HOLDING TANK

FINAL SETTLEMENT TANK

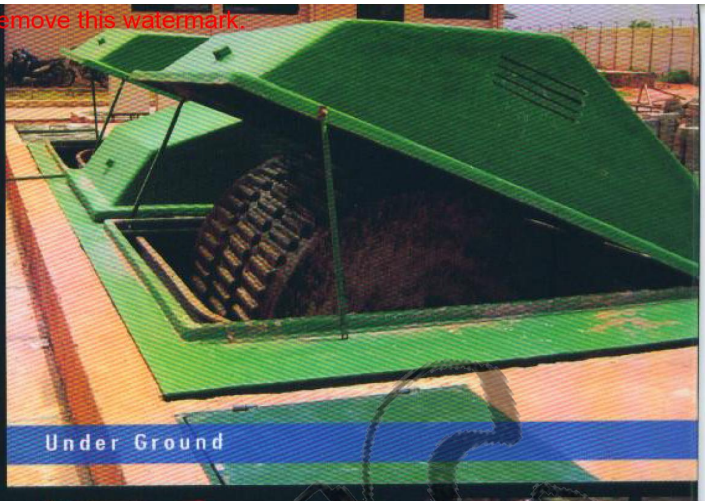
EFFLUENT TANK

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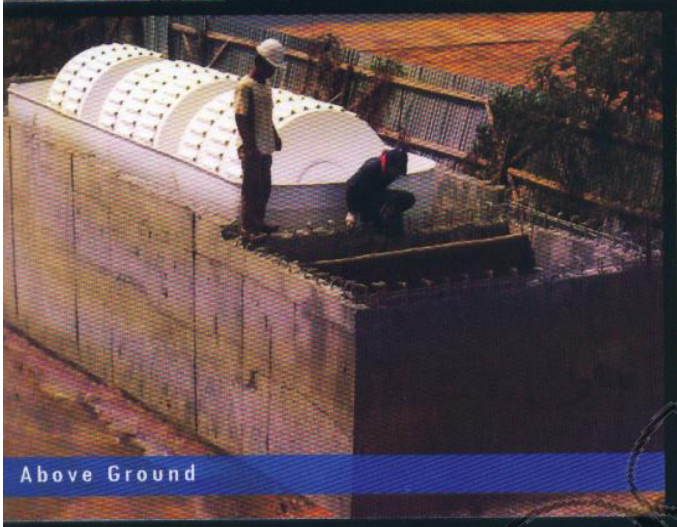
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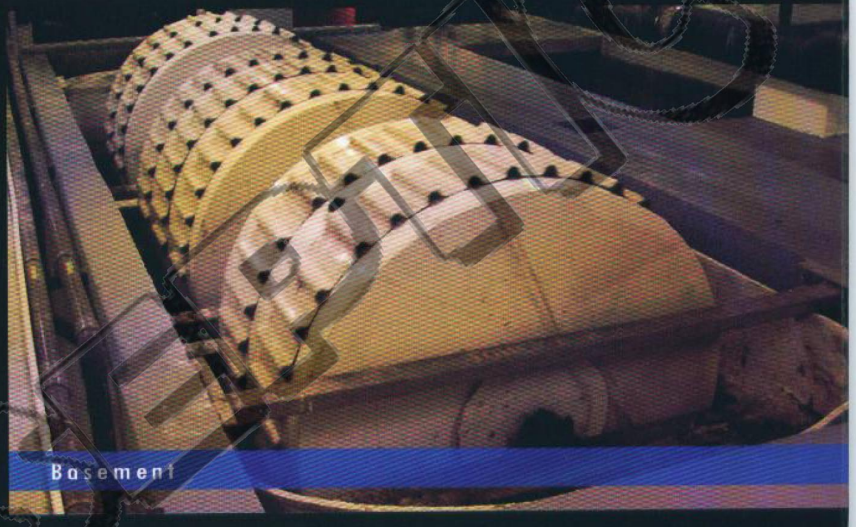
Package



Under Ground



Above Ground



Basement

BIOSEPTIC

PT BIOSEPTIC WATERINDO ABADI

Komplek Bukit Gading Indah Blok M No. 03
Kelapa Gading, Jakarta

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