



PT. BIOTECH INTERNATIONAL

BIOLOGICAL TECHNOLOGY SEPTIC TANK



“ We serve and ensure to our clients
with the best quality product ”



PT. BIOTECH INTERNATIONAL

Facilities :

1. Engineering Design, Factory, Machinery
2. Factory Area 15.000 M2 (1.5 Hektar)
 - * With 4(Four) Building for Production
3. Production use Helical Filament Winding Process With Computerized System
4. Man Power More Than 120 Person.



Pencemaran air limbah domestik saat ini masih menjadi masalah yang serius, dalam proses penguraian limbah Organik System Septic Tank BIOTECH adalah Septic Tank Modern, sehingga hasil proses buangan air limbah domestik menjadi aman dan ramah lingkungan.



Dengan adanya teknologi Septic Tank BIOTECH membantu melestarikan lingkungan tetap bersih dan sehat.



Keunggulan Septic Tank BIOTECH

1. Hasil olahan buangan sesuai standart Pemerintah.
2. Pemasangan praktis dan mudah.
3. Tidak membutuhkan perawatan khusus.
4. Menggunakan Biological Technology System.
5. Produksi Biotech menggunakan standart ASME RTP 01.
6. Menggunakan Media Cell Biotech yang dirancang khusus.
7. Garansi Service Biotech 10 Tahun.

Certificate No. 3016/CE00014
Date: December 4, 2014

REPORT OF ANALYSIS

CLIENT: SPTUSURUH KINAMA YUDHA MOTOR AND MANUFACTURING PT
Jl. Raya Bekasi KM 21, Raya Teratai - Cakung
Jakarta Timur - 13020 - DKI Jakarta, Indonesia

TYPE OF SAMPLE: WASTE WATER

DATE RECEIVED: November 25, 2014

DATE OF ANALYSIS: November 25, 2014 to December 4, 2014

TESTED FOR: Physical, Chemical and Microbiology

DESCRIPTION OF SAMPLE: Sample was submitted by client
Packaging: Unsealed plastic Jerry can

SAMPLE IDENTIFICATION: STP Biotech
Type: BIOD-40
Storage: 10 200g x 8 1570 pcs
Project: J. Raya Bekasi KM 21, Pulogading
Jakarta Timur 13020
Output: STP Biotech

Parameter	Unit	Test Results	Methods / Part Number
BOD 5 days 20 °C	mg/L	11.9	5210 B
COD by K ₂ Cr ₂ O ₇	mg/L	42.9	1020 B
Total Suspended Solids	mg/L	11	2540 D
Ammonia	mg/L	4.11	4000-APL-F
pH	-	6.83	4000-47-B
Phosphate	mg/L	24.6	4000-PCL-C
Culfuron	mg/L	0	8221 B

Registered as Environmental Laboratory
Ministry of Environment, Republic of Indonesia
No. 1015/SJ/LABING-10/2011

ISO 15189:2014 0125

Certificate No. 0402/DRS/12/2014

Certificate of Registration
This is to certify that the Quality Management System of

PT. BIOTECH INTERNATIONAL
RINDO DAAN BOGOT BANG, JL. IRIBARAN BLOK BB NO 7 LT 1 KEL. KALIDERES,
KEC. KALIDERES, JAKARTA BARAT, DKI JAKARTA, INDONESIA

Has been successfully assessed, complied & conforms with the following standard

ISO 9001:2015

Scope of Certification

"SUPPLY, MANUFACTURING AND FABRICATION FIBROGLASS OF BIOSEPTIC TANK, SEWAGE TREATMENT PLANT (STP), WASTE WATER TREATMENT PLANT (WWTP), WATER TREATMENT PLANT (WTP), PORTABLE TOILET FOR WATER TANK & DUBBIN, ROOF SKYLIGHT, GUTTER, GREASE TRAP CHEMICAL TANK AND LINING FIBR"

Initial Registration Date: 16-09-2014 Issue Date: 10-09-2015
Surveillance 1 Audit Date: 10-08-2015 Expiry Date: 09-09-2019
Surveillance 2 Audit Date: 10-09-2015 Validity: 09-09-2021

* Subject to successful completion of Surveillance Audits

DRS MANAGEMENT SYSTEM PVT. LTD.
(AN ISO CERTIFICATION BODY)
Office: 216, D.F. Centre Point, Sector 19, Vasant Vihar, Faridkot - 15103, India. E-mail: drs@drsmst.com
For current validity of the Certificate, visit on www.drs-certification.com/india/india.asp
In the search box enter first 4 letters of organization name plus last 6 letters of certificate no.

Certificate No. 47402/CE00014
Date: December 25, 2010

REPORT OF ANALYSIS

CLIENT: SPTUSURUH KINAMA YUDHA MOTOR AND MANUFACTURING PT
Jl. Raya Bekasi KM 21, Raya Teratai - Cakung
Jakarta Timur - 13020 - DKI Jakarta, Indonesia

TYPE OF SAMPLE: WASTE WATER

DATE RECEIVED: 23/12/2010

DATE OF ANALYSIS: 23/12/2010 to 29/12/2010

TESTED FOR: Physical and Chemical analysis

DESCRIPTION OF SAMPLE: Sample was submitted by client
Packaging: Unsealed plastic Jerry can

SAMPLE IDENTIFICATION: STP Biotech, Volume: 10 L

Parameter	Unit	Test Result	Methods / Part Number
Ammonia	mg/L	3.30	4500-APL-F
BOD 5 days 20 °C	mg/L	6.40	5210 B
COD by K ₂ Cr ₂ O ₇	mg/L	20.9	1020 B
pH	-	6.17	4000-47-B
Total Suspended Solids	mg/L	10	2540 D

CERT. 26.3029.10.30

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• marketing@biotec.co.id



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Biological Technology Septic Tank

PERHITUNGAN KOMUNITAS

Typical wastewater flowrates from commercial sources & recreational facilities

SOURCE	UNIT	FLOWRATE, L / UNIT'D	
		RANGE	TYPICAL
Airport	Passenger	11 - 19	15
Apartment	Badroom	380 - 570	450
Automobile Service Station	Vehicle Served	30 - 57	40
	Employee	34 - 57	50
Bar / Cocktail Lounge	Seat	45 - 95	80
	Employee	38 - 60	50
Boarding House	Person	95 - 250	170
Conference Center	Person	40 - 60	30
Department Store	Toilet Room	1300 : 2300	1500
	Employee	30 - 57	40
Hotel	Guest	150 - 230	190
	Employee	30 - 57	40
Industrial Building (Sanitary Waste Only)	Employee	57 - 130	75
Laundry (Self-Service)	Machine	1500 - 2100	1700
	Customer	170 - 210	190
Mobile Home Park	Unit	470 - 570	530
Motel (With Kitchen)	Guest	210 - 340	230
Motel (Without Kitchen)	Guest	190 - 290	210
Office	Employee	26 - 60	50
Public Lavatory	User	11 - 19	15
Restaurant :			
Conventional	Customer	26 - 40	35
With Bar / Cocktail Lounge	Customer	34 - 45	40
	Employee	26 - 50	40
Shopping Center	Employee	26 - 50	40
	Parking Space	4 - 11	8
Theater Indoor	Seat	8 - 15	10
Apartment, Resort	Person	190 - 260	230
Cabin, Resort	Person	30 - 190	150
Cafeteria	Customer	8 - 15	10
	Employee	30 - 45	40
Camp :			
With Toilets Only	Person	55 - 110	95
With Central Toilet & Bath Facilities	Person	130 - 190	170
Cottages (Seasonal With Private Bath)	Person	150 - 230	190
Country Club	Member Present	75 - 150	100
	Employee	38 - 57	50
Dining Hall	Meal Served	15 - 40	25
Dormitory, Bunkhouse	Person	75 - 190	150
Fairground	Visitor	4 - 12	8
Picnic Park with Flush Toilets	Visitor	19 - 38	19
Recreational Vehicle Park :			
With Individual Connection	Vehicle	280 - 570	380
With Comfort Station	Vehicle	150 - 190	170
Roadside Rest Areas	Person	10 - 19	15
Swimming Pool	Customer	19 - 45	40
	Employee	30 - 45	40
Vacation Home	Person	90 - 230	190
Visitor Center	Visitor	10 - 19	15

Typical comparisons of interior water use without and with water-conservation practices and devices

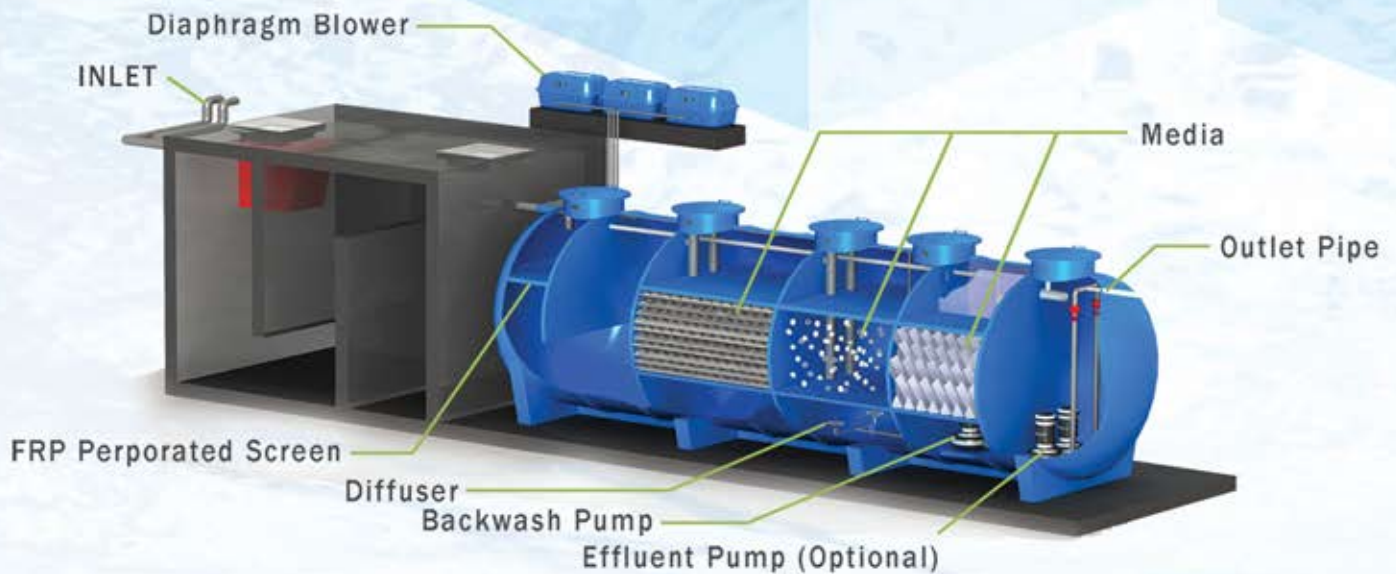
USE	FLOW, L / CAPITA'D	
	WITHOUT WATER CONVERSATION	WITH WATER CONVERSATION
Bathing	5	5
Showers	50	42
Dishwashing	4	4
Clothes Washing	64	45
Faucets	43	42
Toilets	73	35
Leaks	36	18
Others Domestic Use	6	6
Totals	281	197



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SAWAGE TREATMENT PLAN (STP) BIOTECH

TYPE RCO - SERIES



EQUIPMENT



ROOT BLOWER



DIAPHRAGM BLOWER



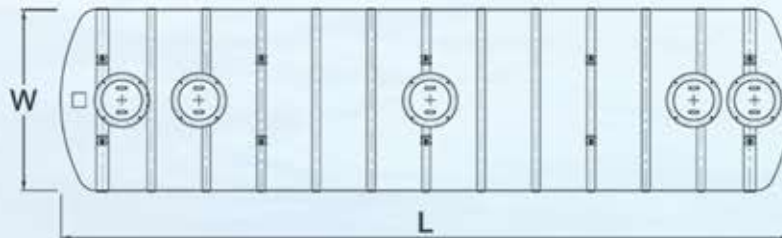
DIFFUSER



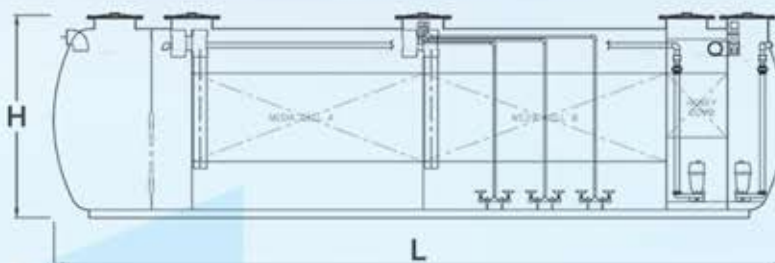
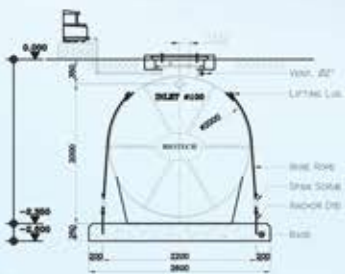
SUMMERSIBLE PUMP



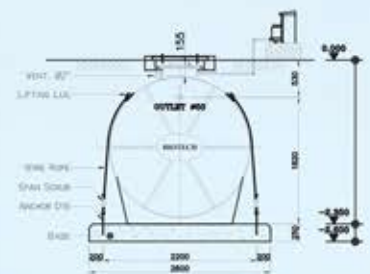
CONTROL PANEL



TOP VIEW



SIDE SECTION



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TABEL STANDART PRODUK SAWAGE TREATMENT PLAN (STP) BIOTECH TYPE RCO

Model	Flowrate (m ³ /day)	Influence BOD (mg/L)	Dimension (mm)			Unit Tank	Inflow Pipe	Manhole cover Diameter
			Total Width (Diameter)	Total Height	Total Length			
RCO-2	2	300	1200	1380	1800	1	100	500
RCO-3	3	300	1350	1530	2100	1	100	500
RCO-4	4	300	1350	1530	2800	1	100	500
RCO-5	5	300	1350	1530	3500	1	100	500
RCO-6	6	300	1500	1680	3400	1	100	500
RCO-7	7	300	1500	1680	4000	1	100	500
RCO-8	8	300	1500	1680	4500	1	100	500
RCO-9	9	300	1500	1730	5100	1	100	500
RCO-10	10	300	1750	1980	4200	1	100	500
RCO-15	15	300	1750	1980	6200	1	100	500
RCO-20	20	300	2000	2280	6500	1	100	500
RCO-25	25	300	2000	2280	8000	1	100	500
RCO-30	30	300	2250	2530	7500	1	100	500
RCO-35	35	300	2250	2530	8800	1	100	500
RCO-40	40	300	2250	2530	10100	1	100	500
RCO-45	45	300	2250	2530	11500	1	100	500
RCO-50	50	300	2500	2800	10200	1	150	500
RCO-60	60	300	2500	2800	12200	1	150	500
RCO-70	70	300	2250	2530	8800	2	100	500
RCO-80	80	300	2250	2530	10100	2	100	500
RCO-90	90	300	2250	2530	11500	2	100	500
RCO-100	100	300	2500	2800	10200	2	100	500



Keterangan : Dimensi tangki dapat disesuaikan dengan kebutuhan lapangan.

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Biological Technology Septic Tank



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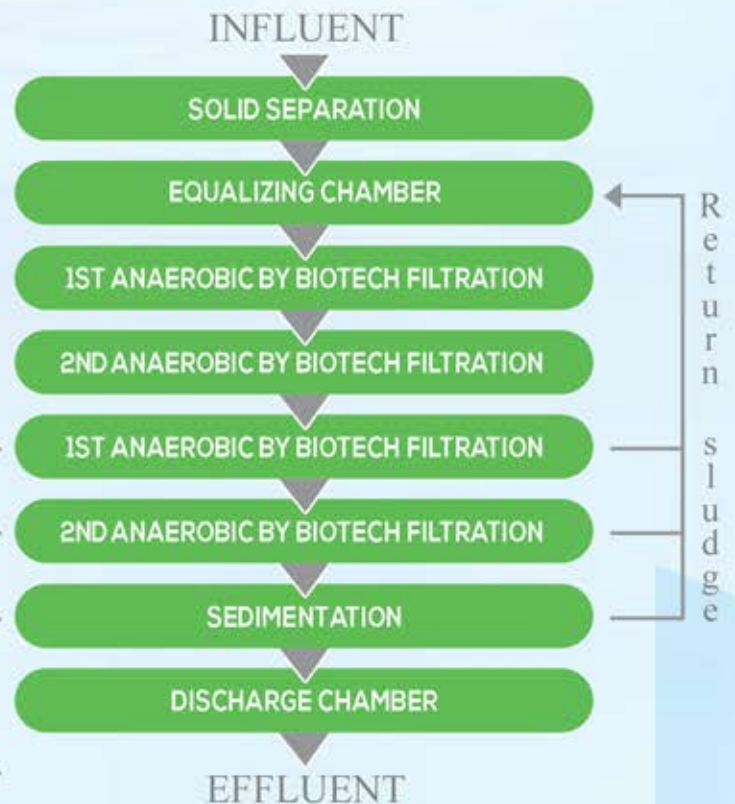
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BIOTECH TYPE RCX - SERIES



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Flow Chart BIOTECH

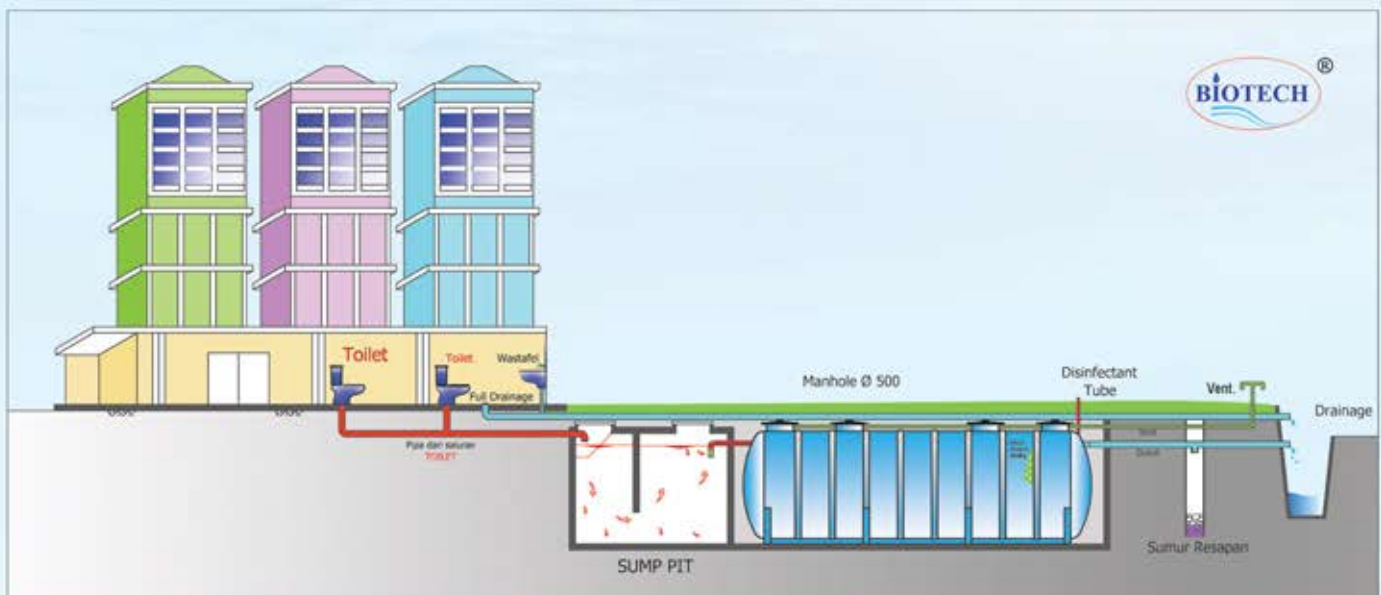


Anaerobic System

No	Tipe	Volume (M3)	Ukuran (M)		Model
			Diameter	Panjang	
1	RCX-2	2	1200	2000	Horizontal
2	RCX-3	3	1350	2000	Horizontal
3	RCX-4	4	1350	2800	Horizontal
4	RCX-5	5	1350	3500	Horizontal
5	RCX-6	6	1500	3500	Horizontal
6	RCX-7	7	1500	4000	Horizontal
7	RCX-9	9	1750	3800	Horizontal
8	RCX-10	10	1750	4000	Horizontal
9	RCX-12	12	1750	5000	Horizontal
10	RCX-15	15	2000	4800	Horizontal
11	RCX-16	16	2000	5100	Horizontal
12	RCX-17	17	2000	5500	Horizontal
13	RCX-18	18	2000	5700	Horizontal
14	RCX-19	19	2000	6000	Horizontal
15	RCX-20	20	2000	6500	Horizontal
16	RCX-25	25	2000	8000	Horizontal
17	RCX-30	30	2250	7500	Horizontal
18	RCX-35	35	2250	8800	Horizontal
19	RCX-40	40	2250	10100	Horizontal
20	RCX-45	45	2500	9200	Horizontal
21	RCX-50	50	2500	10200	Horizontal

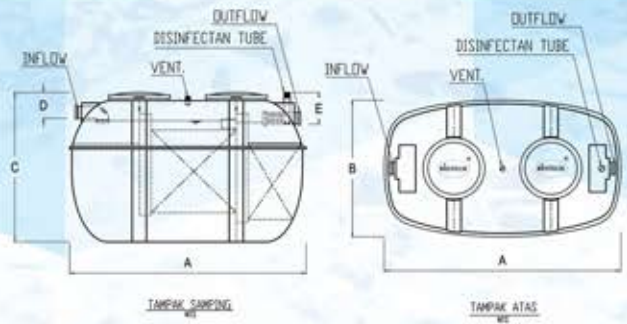


CARA PEMASANGAN BIOTECH TYPE RCX - SERIES



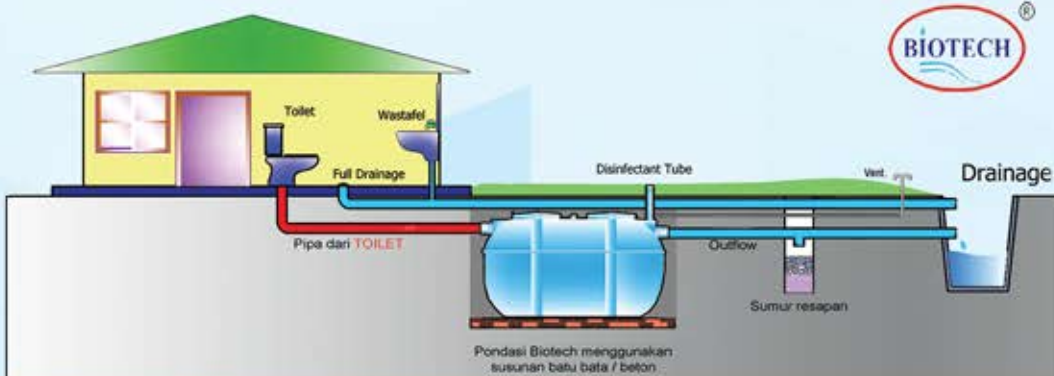
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BIOTECH TYPE RC - SERIES



CARA PEMASANGAN BIOTECH TYPE RC - SERIES

KETERANGAN		Type										
		RC - 2	RC - 3	RC - 4	RC - 5	RC - 6	RC - 7	RC - 8	RC - 10	RC - 15	RC - 20	RC - 25
KAPASITAS (Orang)		5-8	8-12	12-15	15-20	20-25	25-30	30-35	40-50	60-75	80-100	100-125
DIMENSI (mm)	panjang (A)	1700	2000	2400	3000	2800	3550	3950	2350	3150	4150	5350
	lebar (B)	1100	1200	1200	1200	1100	1250	1250	2150	2150	2150	2150
	Tinggi (C)	1100	1300	1350	1350	2200	1750	1750	2250	2250	2250	2250
	Inlet (D)											
	Outlet (E)											
DIAMETER PIPA (mm)	pipa inlet	100	100	100	100	100	100	100	100	100	100	100
	pipa outlet	100	100	100	100	100	100	100	100	100	100	100
	pipa Vent	50	50	50	50	50	50	50	50	50	50	50
	Cleaning Tube	100	100	100	100	100	100	100	100	100	100	100
	Disinfectant Tube	50	50	50	50	50	50	50	50	50	50	50
MATERIAL	Body	FRP										
	Media Cell A	PVC SHEET										
	Media Cell B	HDPE										
	Pipa	PVC										

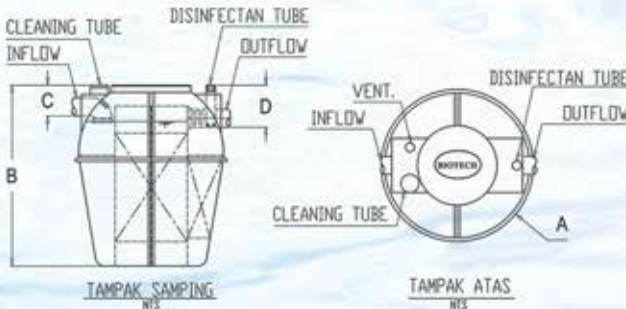


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BIOTECH TYPE BT - SERIES



KETERANGAN		TIPE				
		BT - 06	BT - 08	BT - 12	BT - 15	BT - 16
KAPASITAS (Orang)	RUMAH TINGGAL	2-3	3-5	5-7	8-15	15-20
DIMENSI (mm)	Diameter (A)	900	1100	1200	1600	2050
	Tinggi (B)	1150	1350	1600	2000	2350
	Inlet Depth (C)	150	150	150	150	150
	Outlet Depth (D)	250	250	250	250	250
DIAMETER PIPA (Inches)	Pipa Inlet	4	4	4	4	4
	Pipa Outflow	4	4	4	4	4
	Pipa Venting	2	2	2	2	2
	Cleaning Tube	4	4	4	4	4
	Disinfectant Tube	2	2	2	2	2
MATERIAL	Body	FRP				
	Media Cell A	PVC SHEET				
	Media Cell B	HDPE				
	Pipa	PVC				



Tahapan Pemasangan Biotech BT- Series

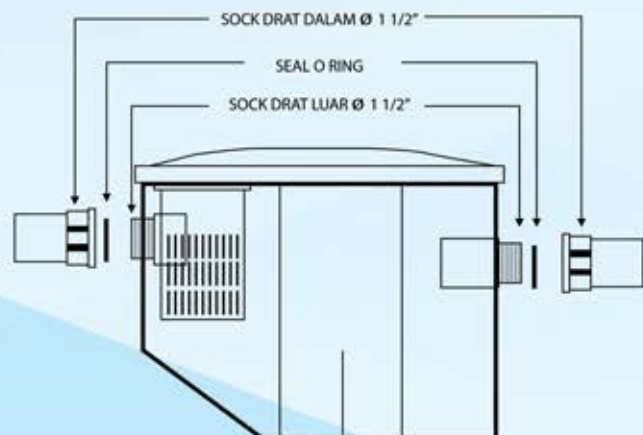
1. Gali tanah lebih besar dari ukuran Biotech. Kedalaman disesuaikan dengan saluran pipa WC. Buat pondasi sesuai diameter Biotech.
2. Letakkan Biotech kedalam galian tersebut dan atur posisi dengan benar. Sambungkan pipa-pipa saluran inlet, outlet dan ventilasi.
3. Isi Biotech dengan air sampai penuh, kemudian mulai timbun dengan pasir disekeliling Biotech.
4. Septic Tank Biotech siap gunakan.

Note : Jika permukaan atas akan dibebani maka diperlukan beton bertulang

GREASE TRAP BIOTECH



- * Restorant
- * Apartemen
- * Food Court
- * Hotel
- * Mall
- * DII.



DIM : 338 mm (L) x 418 mm (P) 328 mm (T)

TOILET PORTABLE BIOTECH



TYPE - A	TYPE - B	TYPE - C
Dimensi 1800X1500X2650	Dimensi 1200X850X2530	Dimensi 1200X850X2300
Tebal FRP 6 mm	Tebal FRP 6 mm	Tebal FRP 6 mm
Kran Air 2"	Kran Air 2"	Kran Air 2"
Kunci Silinder ½"	Kunci Silinder ½"	Kunci Silinder ½"
Drain 2"	Drain 2"	Drain 2"
Septictank 0.6 m³	Septictank 0.4 m³	Septictank 0.4 m³
Water Tank 0.4 m³	Water Tank 0.2 m³	
Volme Bak Air 50 L		



New Design Technology System

Portable Toilet sangat cocok digunakan sebagai pengganti Toilet permanen ditempat umum dan mudah dipindahkan dan sangat mudah dalam perawatannya juga bergaransi.

Portable Toilet dilengkapi dengan water tank, Septic tank, dan instalasi pipa.

STARTER BACTERIA BIOTECH



Mikroorganisme menghasilkan enzim yang mempunyai peranan penting didalam proses biokonversi yaitu mengubah suatu senyawa menjadi senyawa lain yang lebih bermanfaat. Proses ini merupakan dasar dikembangkan dan diterapkannya untuk memenuhi kebutuhan hidup manusia. Misalnya digunakan untuk pengembangan industri, kesehatan, pertanian serta pengelolaan lingkungan hidup untuk menjaga kelestariannya. Pemanfaatan mikroorganisme yang menguntungkan merupakan sebuah jawaban untuk memperoleh kepraktisan dan kemudahan dalam mengatasi limbah-limbah organic yang ada. *BIOTECH BE - 500* merupakan stater, treatment, dan substrat yang dibutuhkan mikroorganisme yang menguntungkan sehingga dapat bekerja secara superfantastis dan pasti.

PROJECT LIST

- PT. ABC President
- PT. Adhi Karya
- PT. Araya
- CV. Bangun Decorindo
- PT. Basuki Rahmat
- PT. Charoen Pokphand
- PT. Chubb Safes Indonesia
- PT. Coca Cola - Cikarang
- PT. Cognis
- PT. Daichi Chemical
- PT. Delident
- PT. Dharma Polimetal
- PT. Dystar Colorindo
- PT. Esa Kertas
- PT. Frisian Flag
- PT. Golden Mississippi
- PT. Hopac.
- PT. Indah Kiat Pulp & Paper
- PT. Kormac
- PT. Locomotif
- PT. Mayora Indah
- PT. Mitsui Eterindo Chemical
- PT. Pindo Deli Pulp & Paper
- PT. Pulau Intan
- PT. South Pasific
- PT. Sumitomo Corp
- PT. Surya Cipta
- PT. Totalindo
- PT. Total Bangun Persada
- PT. Tatamulia
- PT. Tatametrika Nusantara
- PT. Waskita Karya
- PT. Wijaya Karya
- PT. Barito
- PT. Goautama Sinarbatuah
- PT. Citra Amarantha Perdana
- PT. Aneka Sentratama Cahaya Optima
- PT. Bona Jati Mutiara
- PT. Farmel Cahaya Mandiri
- PT. Rembiga Indah
- PT. Jatikarya Megah Laksana
- PT. Pembangunan Perumbahan
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- PT. Satyagi Cipta Prima
- PT. Leo Tunggal Mandiri
- PT. Rembiga Indah
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- PT. Star Delta Utama Sakti
- PT. Sumber Jayatama
- PT. Prakarsa Alam Segar
- PT. Salim Invomas Pratama
- PT. Mecon Mitratama
- PT. Citra Cakra Pandawa
- PT. Biotirta Kencana
- PT. Cahayamurni Dirganusa
- PT. Murinda Iron Steel
- PT. Waskita Karya
- PT. Intraco Lestari
- PT. Pasar Pinang Jaya
- PT. Putra Bangun Nusagriya
- PT. Delta Baja Mas
- PT. Jaya Teknik
- PT. Hen Jaya
- PT. Glitter Indo Pratama
- PT. Sanwa Prefab Tech
- PT. Kaliraya Sari
- PT. Saranamukti Dirgasentosa
- PT. Djarum
- PT. Intinusa Teknik Sejahtera
- PT. Kebangkitan Armand K
- PT. Mitra Inti Cemerlang
- CV. Luhung Abdi Karya
- CV. Putri Asyifaa
- PT. Tukang Rakit Ruang
- PT. Morotai Paradis Resor
- PT. Mitra Cipta Pola Sarana



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We Serve :

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