



**CÔNG TY TNHH NƯỚC VÀ VỆ SINH MÔI TRƯỜNG VIỆT NAM**  
VIETNAM WATER AND ENVIRONMENTAL SANITATION CO. LTD.

## *Prefabricated wastewater treatment tank*



**Leading in wastewater treatment  
and the sustainable development**

## INTRODUCTIONS:

- **VESA – Reliable address for solution of water supply, drainage, wastewater treatment, collecting and treating disposal solid waste, treating and recycling waste systems.**

### STRENGTH PRODUCTS OF VESA:

- ◆ The distributed wastewater treatment solution
  - The distributed wastewater treatment technology originating in the United States, with the process of technology – physics – chemistry – biology, specialized equipment;
  - The modular wastewater treatment tank, made available by the composite
  - The wastewater treatment system of small and medium capacity.
- ◆ The exclusive representative of the distribution of the submersible sewage pumps and drainage households QwickJon by Zoeller group, know in the United States;
- ◆ Sales of supplies and equipment industry, engineering, energy. Environment and development
- ◆ Consultant
  - Design and estimation of the water supply and drainage, environmental pollution treatment
  - Consultancy report strategic environmental assessment, environmental impact assessment
- ◆ Research and applications, training – training; technology transfer

### MESSAGE OF VESA

**We always keep on expand cooperation relations to domestic and abroad partners in the field of water supply, drainage, environmental, technology: Enterprises, organizations, and individuals in the central and local area, study and training agencies, the leading experts, of international and Viet-Nam in water supply, drainage and environment field to maximize promotional general strength, For the sustainable, development of each enterprise, individual and the country**

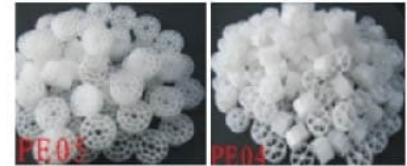


**ASTEC**



**AAO - BIOLOGICAL TECHNOLOGY**  
**( BASTAFAT-F - BAFFED SEPTICTANK, ANAEROBIC FILTER AND AEROBICTANK-FIBERGLASS REINFORCED)**

**Flow (m<sup>3</sup>/day)**  
**2~3**



Bio-Media

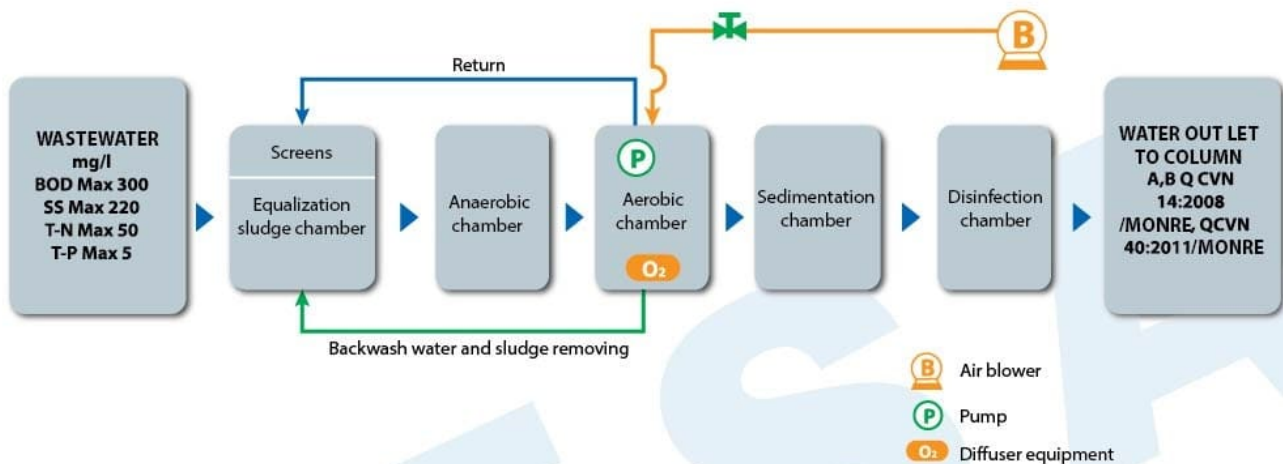


Air blower and Pump



Disinfection system

**TECHNOLOGICAL PROGRESS**



**FEATURES**

**This technology allows to treat the indicators:**

- BOD<sub>5</sub> ( Biochemical oxygen demand) ; SS ( suspended solids) T-S ( Total nitrogen)
- This model also remove N, P by circulation process, against water source eutrophication

**PRODUCT CHARACTERISTICS**

- Water out let to column **A, B QCVN 14:2008/Monre; QCVN 40:2011/ Monre**
- Biological nitrogen separation function, anti water soluble nutrients
- Design independent sludge chamber, lasting clean, simple maintenance, easy to use
- Automatic operating, backwash, intelligent, easy operation, simple operating maintenance
- Using composite fiber glass reinforced, high strength, corrosion resistance, service the life more 30 years

## SPECIFICATIONS

- Capacity : 2,5 – 3 (m<sup>3</sup>/ day)
- Person: 10 -30 ( people)
- Including 2 tanks
- Composite tank No.1: D × L = 1,6 x 2,85 (m)
- Composite tank No.2: A×B ×H = 0,8 × 1,27 × 0.84 (m)

## APPLICATION

- For the coastal resorts, luxury resorts
- For villas, duplex apartment
- For restaurants, mini hotels
- For offices, administrative service



## ACTIVATED SLUDGE AND MEMBRANE BIO - REACTOR TECHNOLOGY

Flow (m<sup>3</sup>/day)  
10~ 180



MBR – Membrane Bio- Reactor and Pump

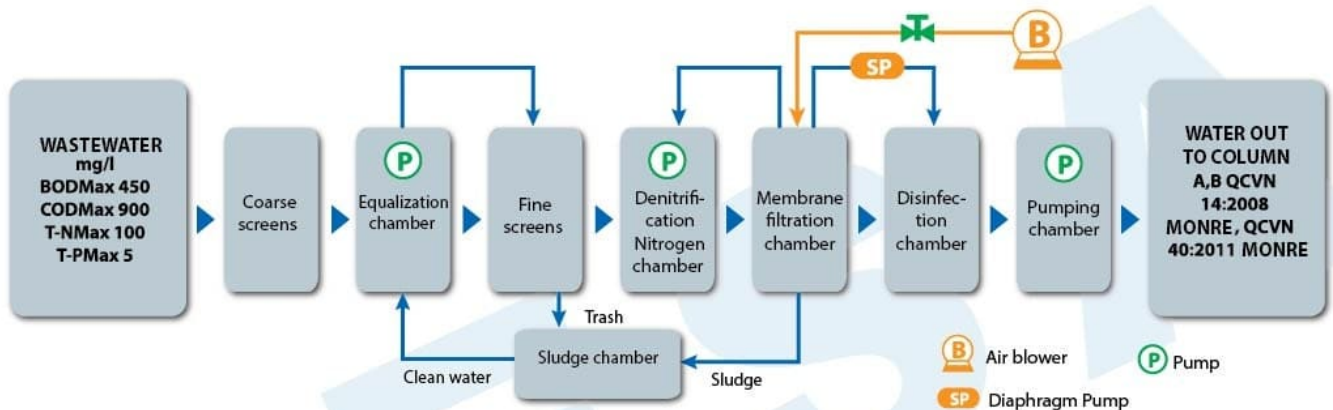


Fine screens



Air blower

### TECHNOLOGICAL PROGRESS



### FEATURES

This technology allows to treat the indicators:

- BOD<sub>5</sub> ( Biochemical oxygen demand) ; SS ( suspended solids) T-S ( Total nitrogen)
- Design with pumping chamber to save volume
- Not allow industrial wastewater, exhaust air, chemical into membrane systems
- Not allow oil of water into membrane systems. If wastewater has include oil so many that we have to have oiltrap.

### PRODUCT CHARACTERISTICS

- Wastewater treatment thoroughly against eutrophication
- Suitable design, close without the preparatory plan to save area
- Water out let to column **A, B QCVN 14:2008/ MONRE; QCVN40:2011/ MONRE**
- Automatic operating, backwash, intelligent, easy operation, simple operating maintenance
- Using composite fiber glass reinforced, high strength, corrosion resistance, service the life more 30 years.

**SPECIFICATION**

Flow (m <sup>3</sup> / day)	Model	Person	Dimension (mm)		Length (mm)				Nominal capacity (Kw)
			W	L	La	Lb	Lc	Ld	
10.0	1	51	3,600	6,750	6,150				3.39
15.0	1	75	3,600	7,400	8,800				3.39
20.0	1	100	3,600	9,150	8,550				3.39
25.0	1	125	3,600	10,200	9,600				3.44
30.0	1	150	3,600	11,200	10,600				3.44
35.0	2A	175	3,600	14,150	5,400	7,650			4.19
40.0	2A	200	3,600	15,150	6,100	7,950			4.84
45.0	2A	225	3,600	16,200	6,800	8,300			4.84
50.0	2A	250	3,600	18,200	7,500	9,600			4.84
55.0	2A	275	3,600	19,200	8,200	9,900			5.54
60.0	2A	300	3,600	20,250	8,900	10,250			5.54
65.0	3A	325	3,600	23,300	9,600	5,600	6,500		7.04
70.0	3A	350	3,600	24,350	10,250	6,000	6,500		7.04
75.0	4A	375	3,600	26,250	5,600	5,650	6,400	6,500	7.04
80.0	4A	400	3,600	27,300	5,950	6,000	6,750	6,500	7.79
85.0	4A	425	3,600	29,450	6,300	6,350	7,200	7,500	7.79
90.0	4A	450	3,600	30,500	6,650	6,650	7,600	7,500	7.79
95.0	4A	475	3,600	31,600	7,000	7,000	8,000	7,500	7.79
100.0	4A	500	3,600	33,700	7,350	7,350	8,400	8,500	8.79
120.0	4A	600	3,600	39,100	8,750	8,750	10,000	9,500	11.64

Depend on the customer the capacity treating. We can be design the different products

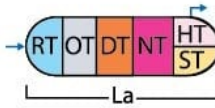
**APPLICATION:**

- For the coastal resorts, luxury resorts
- For hospital, Clinic
- For restaurants, hotels in large scale
- For offices, administrative services
- For industrial park

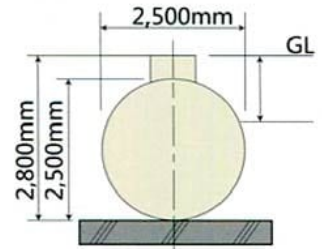


**CONFIGURATIVE DESCRIPTION**

VESA-P-1

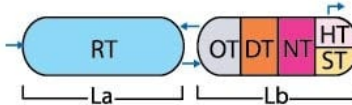


Dimension ø2,500xH2800

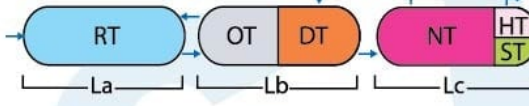


Section

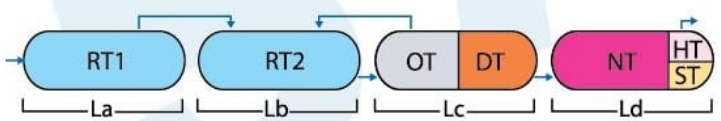
VESA-P-2A



VESA-P-3A



VESA-P-4A

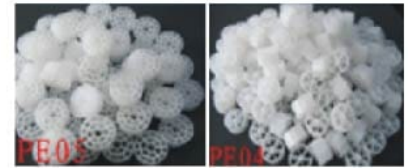


RT	Equalization chamber	DT	Denitrification Nitrogen chamber
ST	Disinfection chamber	NT	Nitrat separation chamber
HT	Pumping chamber	OT	Sludge chamber



## AO – ANAEROBIC OXYDATION TECHNOLOGY

Flow  
2 -3 (m<sup>3</sup>/day)



Bio-Media

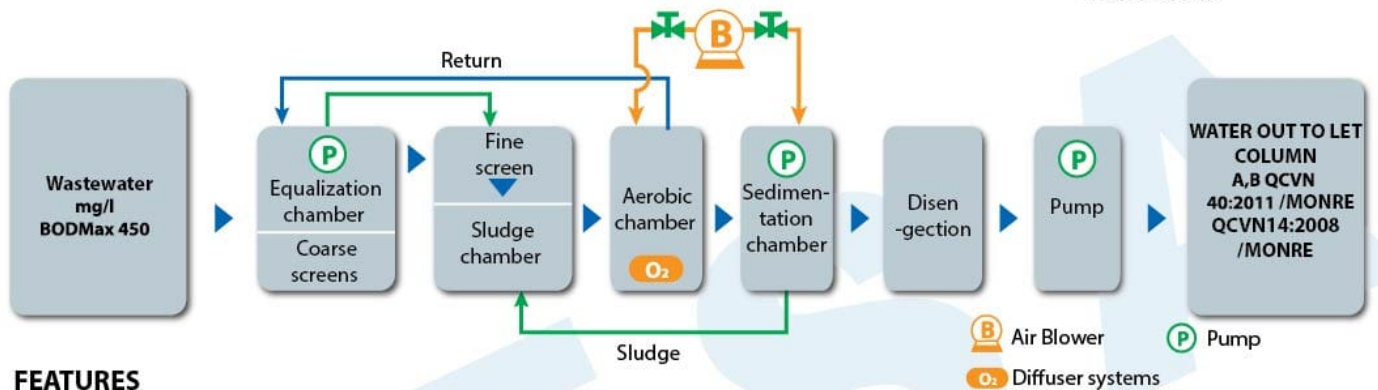


Air blower and Control Panel



Coarse Screens

### TECHNOLOGICAL PROGRESS



### FEATURES

This technology allows to treat the indicators:

- BOD<sub>5</sub> ( Biochemical oxygen demand); SS (suspended solids)
- Through the method of adjusting the flow circulation, filtered through the filter holder containing bio- film can cost several that wastewater is treated thoroughly
- Apply plexible for various type of wastewater with different capacities
- The flow control equipment submersible pumps technological pipe, various kinds of Bio – film may have been manufactured, processed, installed to suit with each specific configuration

### PRODUCT CHACACTERISTICS

- The great variations in wastewater discharge into the equipment based on functional adjustment of operating mode
- The sludge chamber is designed individually, permanent sludge, simple operation and maintenance;
- Suitable design, close, without the preparatory plan to save area
- Water out let to column A, B QCVN14:2008/ MONRE, QCVN 40:2011/MONRE
- Automatic operating equipment, backwash, intelligent, easy operation, simple operating maintenance
- Using composite fiber glass reinforced, corrosion resistance service the life more 30 years.



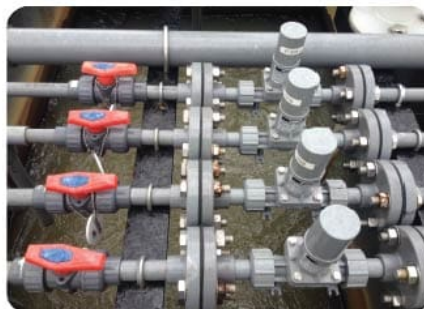
**SPECIFICATION**

Flow (m <sup>3</sup> /day)	Model	Person	Dimension (mm)			Length (mm)					Nominal capacity (Kw)	
			W	L	La	Lb	Lc	Ld	Lon1	Lon2		
10.2	1	51	3,600	6,200	5,600							1.43
20.0	1	100	3,600	6,650	6,650							1.78
30.0	1	150	3,600	8,050	7,450							1.78
32.0	1	160	3,600	8,350	7,750							2.53
34.0	1	170	3,600	8,750	8,150							2.53
36.0	1	180	3,600	9,050	8,450							2.53
38.0	1	190	3,600	9,450	8,850							2.53
40.0	1	200	3,600	9,750	9,150							2.53
42.0	1	210	3,600	10,150	9,550							2.53
44.0	1	220	3,600	10,550	9,950							2.53
46.0	1	230	3,600	10,850	10,250							2.53
48.0	1	240	3,600	11,300	10,700							2.58
50.0	2	250	3,600	12,550	5,350	6,100						2.58
52.0	2	260	3,600	12,950	5,550	6,300						2.58
54.0	2	270	3,600	13,350	5,750	6,500						2.58
56.0	2	280	3,600	13,650	5,900	6,650						3.28
58.0	2	290	3,600	14,100	6,100	6,900						3.48
60.0	2	300	3,600	14,450	6,300	7,050						3.48
70.0	2	350	3,600	16,400	7,250	8,050						3.53
80.0	2	400	3,600	18,300	8,150	9,050						3.33
90.0	2	450	3,600	20,150	9,050	10,000						3.93
100.0	4	500	6,600	12,400	5,150	6,100	5,200	6,100				4.23
120.0	4N	600	6,600	16,050	5,300	7,050	5,350	7,050	2,050	2,050		6.73
140.0	4N	700	6,600	17,950	6,200	8,050	6,250	8,050	2,050	2,050		9.28
160.0	4N	800	6,600	19,700	7,000	9,050	7,250	9,050	2,050	2,050		9.28
180.0	4N	900	6,600	21,950	7,800	10,000	7,850	10,000	2,500	2,500		10.78

Depend on the customer the capacity treating.  
We can be design the different products

**APPLICATION**

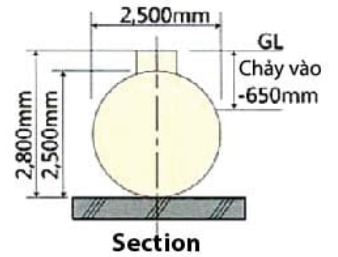
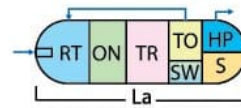
- For the restaurants, medium and small scale hotels
- For Industrial Park, Domestic wastewater
- For clinic, school, offices, administrative services



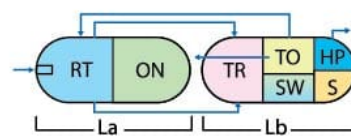
**CONFIGURATIVE DESCRIPTION**

Dimension ø2,500xH2800

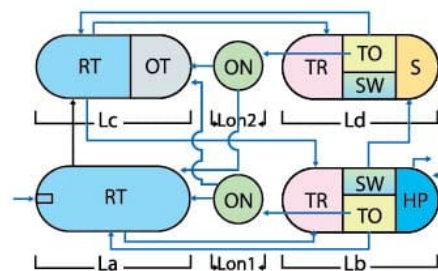
VESA-A1



VESA-A2



VESA-A4N

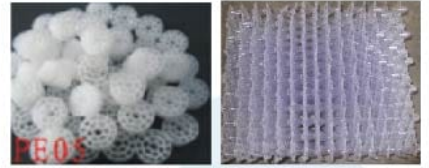
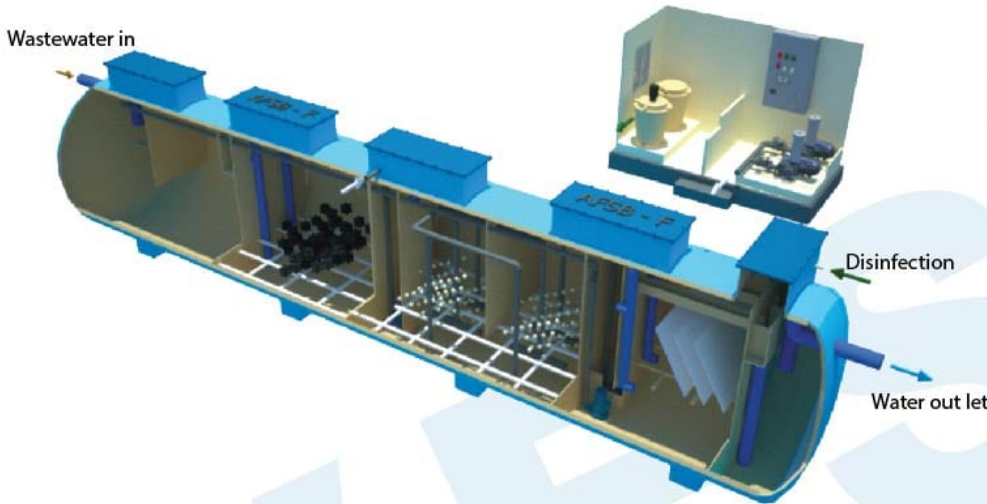


RT	Equalization chamber	OT	Sludge Chamber
TR	Movable filter Bio- film chamber	SW	Stabilize water chamber
TO	Permanent filter Bio – film Chamber	HP	Pumping chamber
ON	Condensed Sludge chamber		Disinfection chamber



**AAO – AFSB®-F  
ANAEROBIC FILTER SUBMERGED BIOLOGICAL TECHNOLOGY**

**Flow (m3/day)  
10~ 180**



Bio Media

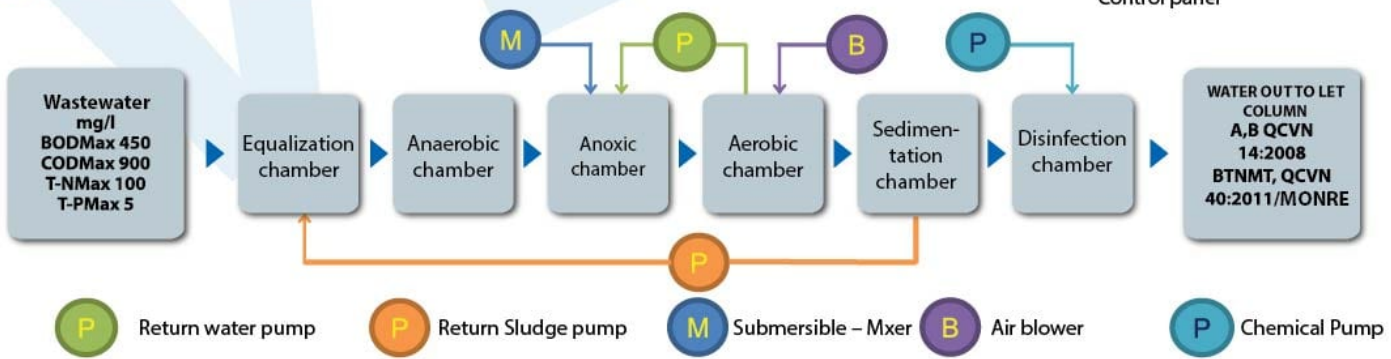


Pump and diffuser systems



Control panel

**TECHNOLOGICAL PRESENTATION**



**FEATURES**

**This technology allows to treat the indicators:**

- BOD<sub>5</sub> ( Biochemical oxygen demand), SS ( suspended solids) T –N ( Total – Nitrogen)
- Through the method of adjusting the flow circulation, filtered through the filter holder containing bio- film can cost several that wastewater is treated thoroughly
- Apply flexible for various type of wastewater with different capacities
- The flow control equipment submersible pumps technological pipe, various kinds of Bio – film may have been manufactured, processed, installed to suit with each specific configuratio

**PRODUCT CHARACTERISTICS**

- The great variations in wastewater discharge into the equipment based on functional adjustment of operating mode
- The sludge chamber is designed individually, permanent sludge, simple operation and maintenance;
- Suitable design, close, without the preparatory plan to save area
- Water out let to column A, B QCVN14:2008/ MONRE, QCVN 40:2011/MONRE
- Automatic operating equipment, backwash, intelligent, easy operation, simple operating maintenance
- Using composite fiber glass reinforced, corrosion resistance service the life more 30 years.



**SPECIFICATIONS**

Flow (m3/day)	Model	Dimension		Length (mm)			
		D	La	Lb	Lc	Ld	
10.0	1	2000	9.50				
15.0	1	2000	10.5				
20.0	2	2000	9.50	9.50			
25.0	3	2000	5.00	9.50	9.50		
30.0	2	2500	8.00	8.00			
40.0	3	2500	5.00	8.00	8.00		
50.0	2	2500	9.50	9.50			
60.0	3	2500	3.00	9.50	9.50		
80.0	3	2500	7.00	9.50	9.50		
100.0	3	2500	9.50	9.50	9.50		
120.0	3	2500	12.0	12.0	12.0		
150.0	4	2500	9.00	12.0	12.0	12.0	
180.0	4	2500	12.0	12.0	12.0	12.0	

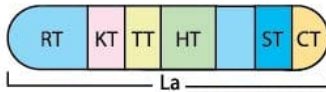
Depend on the customer the capacity treating. We can be design the different products

**APPLICATION:**

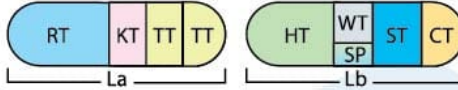
- For urban area, apartment
- For the coastal resorts, luxury resorts
- For hospital. Clinic
- For restaurants, hotels in large scale
- For offices, administrative services
- For industrial park

**CONFIGURATIVE DESCRIPTION**

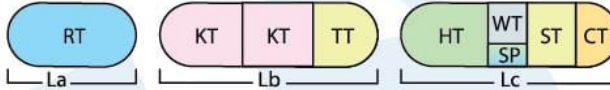
VESA-V1



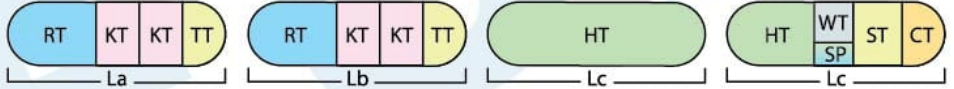
VESA-V2



VESA-V3



VESA-V4



Section

RT	Equalization chamber	WT	Return water pump chamber
KT	Anaerobic chamber	SP	Return sludge pump chamber
TT	Anoxic chamber	ST	Sedimentation chamber
HT	Aerobic Chamber	CT	Disinfection chamber



# TYPICAL PROJECTS



**WWTP - Phuong Hoang Xanh- Ha Noi**



**WWTP – Tay Thien Landscapes Relic – Vinh Phuc**



**WWTP – Stylestone – Ha Noi**



**WWTP – Thuy Phuong Pig Farm – Hoa Binh**



**WWTP – Vicostone – Ha Noi**



**WWTP – Thuy Khue Flower Village – Ha Noi**



**WWTP – Hung Nghiep Steel of Formosa – Ha Tinh**



**Vesa Factory**



## **CÔNG TY TNHH NƯỚC VÀ VỆ SINH MÔI TRƯỜNG VIỆT NAM**

VIETNAM WATER AND ENVIRONMENTAL SANITATION CO. LTD

**Office:** 168 Nguyen Tuan street, Thanh Xuan district, Hanoi

Tel: (+84-4) 3557 7524 | Fax: (+84-4) 3557 4810

**Ho Chi Minh Office:** 157/14 – D2 road, ward 25, Binh Thanh district

Tel: (+84-8) 38 9999 50 | Fax: (+84-8) 3512 0346

**Website:** [www.vesaco.vn](http://www.vesaco.vn)