



PWT-R Packaged Sewage Treatment Plant



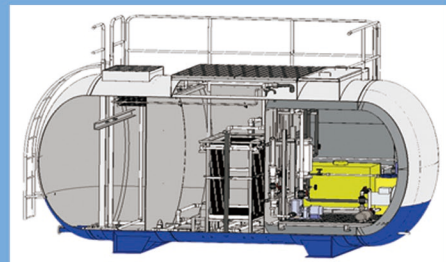
PWT-R Packaged Sewage Treatment Plant (PWT-R Packaged Plant) is a high-tech product with organic combination of biotechnology and membrane technology, that is suitable for various small and medium scale decentralized domestic sewage and similar industrial organic wastewater treatment.

APPLICATION SCOPE

New rural water management, ecological park, public toilets, river pollution interception et cetera.

EQUIPMENT FEATURES

1. Good effluent quality, can be directly reused.
2. Packaged equipment and small footprint.
3. Low operating cost and wide range of adaptation.
4. Intelligent unattended long-distance control.
5. Equipment can be installed overground and underground.
6. Less residual sludge, less noise, environment friendly.



TECHNOLOGY PRINCIPLE

The key technology principle of this product is the membrane bioreactor constituted by the organic combination of biotechnology and MBR membrane technology. It makes the hydraulic retention time (HRT) and sludge age (SRT) completely separated. With high efficiency solid-liquid separation performance, high activated sludge retention, and activated sludge of 5000-11000mg/L ultra-high concentration can be formed in the reaction tank, thus completely degrading the pollutants in the sewage and achieving water purification.

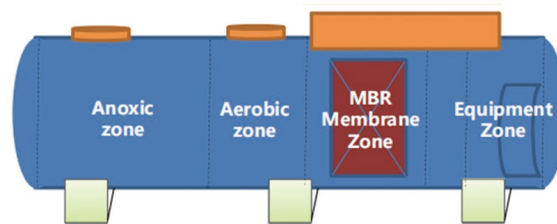


Figure 1 Schematic of integrated device composition (PWT-R)

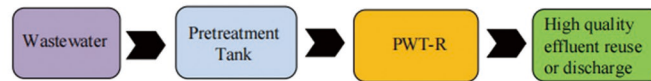


Figure 2 Process flow diagram

TECHNICAL AND ECONOMIC PERFORMANCE

NO.	Indicators	PWT-R
1	Land area per unit of water column(m^2/m^3)	0.15~0.25
2	Power consumption per unit of water column($kW \cdot h/m^3$)	0.6~1.0
3	Direct operating costs per unit of water column(RMB/ m^3)	0.7~1.0

Note:

All the above data refer to the main PWT Packaged Plant parameters, excluding the pretreatment part and the inlet and outlet water lifting, etc.



PWT-R Packaged Sewage Treatment Plant

PRODUCT MODEL AND BASIC PARAMETERS

Description of the product model:

PWT-R-200

Represents the daily treatment capacity 200 (m³/d)

Equipment shape code: R for round can series

Equipment type code: PWT stands for equipped integrated purification tank

PRODUCT MODEL

Product Model	Scale (m ³ /d)	People Served	Dimension Φ*L*H (m)	Installed Power (kW)	Area (m ²)	Weight (t)
PWT-R-10	10	100	Φ2X3.2X2.2	1.5	6.4	6
PWT-R-20	20	200	Φ2X4.3X2.2	1.8	8.6	11
PWT-R-30	30	300	Φ2.5X4.3X2.7	2.5	10.8	15
PWT-R-50	50	500	Φ2.5X5.8X2.7	3.5	14.5	23
PWT-R-100	100	1000	Φ3X7X3.3	4.8	21	40
PWT-R-200	200	2000	Φ3X12.5X3.3	8.5	37.5	80
PWT-R-250	250	2500	Φ3X15X3.3	8.5	45	98
PWT-R-300	300	3000	Φ3X8.5X3.3*2	10.5	51	117
PWT-R-500	500	5000	Φ3X13.5X3.3*2	13.5	81	194

AUXILIARY FACILITIES SPECIFICATION

Model	Pre-treatment adjusting tank	Equipment Base	Equipment Base
	L*W*H(m)	L*W*H(m)	KN/m ²
PWT-R-10	2.0x1.0x1.5	2.4X3.6X0.3	35
PWT-R-20	2.0x1.0x2.0	2.4X4.7X0.3	35
PWT-R-30	2.0x2.0x2.0	2.9X4.7X0.3	35
PWT-R-50	3.0x2.0x2.0	2.9X6.2X0.3	35
PWT-R-100	4.0x2.0x2.5	3.4X7.4X0.3	35
PWT-R-200	5.0x3.0x2.5	3.4X12.9X0.3	35
PWT-R-250	5.0x4.0x2.5	3.4X15.4X0.3	35
PWT-R-300	5.0x3.0x3.5	7.4X8.9X0.3	35
PWT-R-500	6.0x4.5x3.5	7.4X13.9X0.3	35

WATER QUALITY STANDARDS FOR INLET AND OUTLET

No.	Project Indicators	Dimension	Discharge Foundation
1	COD _{cr} (mg/L)	<400	<30
2	BOD ₅ (mg/L)	<200	<6
3	TN(mg/L)	<45	<15
4	NH ₃ -N(mg/L)	<35	<1.5
5	TP(mg/L)	<4	<0.3
6	SS(mg/L)	<200	<5

Note : The outlet water quality meets the relevant local discharge standards.