



AUTONOMOUS WASTE WATER TREATMENT SYSTEM

INDO - EUROPEAN
TECHNOLOGY
COLLABORATION



INDUSTRIES



COMMERCIAL
COMPLEXES



HOSPITALS



INSTITUTIONS



SUSTAINABLE SOLUTIONS
FOR A BETTER TOMORROW

SHIVSU PIELKENROOD WATEK LIMITED

Shivsu Watec is a global leader in water resource management and water treatment solutions. Since 1969, we have been in the field of water treatment, waste water treatment, process water treatment as well as brackish and sea water desalination. We specialised in total water management system for cities, townships and large scale developments including SEZ, special economic zones, ports & island developments. We also specialise in multi technology integration for super critical water & ultra pure water.

With over 5 decades of commitment to design and developing custom made solutions for water, waste water, process water and water desalination, we have been pronounced globally as pioneers in the industry. The group focus has been to address the demand of Government, cities, townships, municipalities and industries, drinking water supply, urban sanitation, water treatment, waste water treatment, process water treatment and water desalination.

We have successfully designed, manufactured, supplied and commissioned more than 10000 Projects of various sizes in Australia, Eastern Europe USA, India, Sri Lanka, Bangladesh, Middle East, Africa, and South East Asia. We also specialise in waste water treatment, sewage treatment as well as Industry Effluent Treatment. With our specialisation in sea water desalination for Process water, Potable water and Drinking water, we have installed more than 300 MLD sea water desalination plants, single and two pass with pre-treatment and post-treatment world-wide. We specialise in multi technology integration system solutions for effluent treatment, process water treatment and zero-discharge treatment plant. We have worked with all leading international consultants and have an exhaustive list of satisfied clients.



Shivsu Watec has one of the largest manufacturing infrastructures in the world to produce equipment in system with the capability to deliver 100 MLD sea water desalination plant in less than 10 months. We have built one of the largest containerised sea water desalination plants in the world with a capacity of 60 MLD in Jubail, Saudi Arabia. We have entered into several Joint Venture agreements throughout the world and floated SPV's to offer Built Own Operate, Built Own Transfer projects for water supply to various clients including large industries, special economic zone and Government. Shivsu Watec is an ISO 9001 Certified company. The company has a full-fledged R&D center where our engineers work on new product designs, development, as well as upgrading of existing ones and indigenisation of foreign technologies obtained through collaborations. The company has established offices in Dubai, UAE, Nairobi, Kenya as well as Dallas, Texas, US.

Our employees put their heart into every product to ensure it serves you reliably for many years and makes living in your home more comfortable.

SHIVSU PIELKENROOD's production facilities are equipped with modern CNC machines for cutting and processing sheet plastics, automated butt-welding machines, and professional manual equipment for thermoplastic welding. This significantly enhances the quality of wastewater treatment system assembly.



“Shivsu Watec Air” is a compact version of a compressor-based treatment system. It is designed for small buildings with low water consumption. Its compact dimensions allow installation even in very confined spaces.

Design and Operating Principle of our Septic Systems

All septic systems in our product line are made from high-quality virgin polypropylene. The operating principle of local treatment systems is based on purification using two types of bacteria: aerobic and anaerobic. Compressor-based system lines provide better oxygenation of wastewater and are therefore more suitable for permanent residence.



Easily withstands periods without users



Eliminates the risk of flooding of the electrical components by wastewater



Compact and efficiently designed, ensuring full functionality and easy transport



Does not require frequent servicing



No electromagnetic valves or liquid level sensors controlling operation cycles



Handles accidental ingress of non-soluble objects into the receiving chamber without major issues



Does not require removal (disassembly) of main components during maintenance



SHIVSU WATEC AIR 2

- 1-2 users
- 650 L/day
- 110 L peak discharge



SHIVSU WATEC AIR 3

- 2-3 users
- 750 L/day
- 160 L peak discharge



SHIVSU WATEC AIR 4

- 3-4 users
- 850 L/day
- 199 L peak discharge

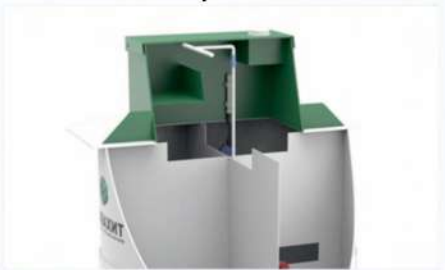
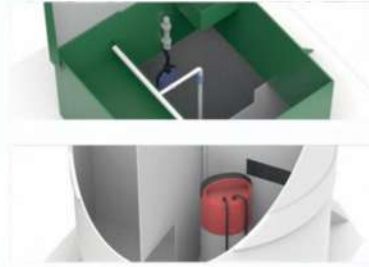
Parameter

Our Standard model Shivsu Watec Air Air 2/2 PR Air 3/3 PR Air 4/4 PR

Parameter	Air 2/2 PR	Air 3/3 PR	Air 4/4 PR
Number of Users	2	3	4
Capacity, m ³ /day	0,65	0,75	0,85
Maximum Peak Discharge, L	110	160	199
Power Consumption, W/h	64	64	64
Weight, kg	59	69	81



“Shivsu Waterc Nero” is one of the leading pump-based wastewater treatment systems on the market. This model is suitable for seasonal or intermittent use. Pump-type systems are less prone to clogging and better tolerate the ingress of non-soluble objects into the receiving chamber. It is equipped with an alarm system included in the unit price.



Easily withstands periods without users



The risk of wastewater flooding of electrical components is eliminated



Handles accidental ingress of non-soluble objects into the receiving chamber without major issues



Does not require removal (disassembly) of main components during maintenance



No electromagnetic valves or liquid level sensors controlling operation cycles



An alarm system is included in the price of the unit



Does not require frequent servicing



SHIVSU WATEC NERO 3

- 2-3 users
- 750 L/day
- 150 L peak discharge



SHIVSU WATEC NERO 4

- 3-4 users
- 850 L/day
- 180 L peak discharge



SHIVSU WATEC NERO 5

- 4-5 users
- 950 L/day
- 200 L peak discharge



SHIVSU WATEC NERO 6

- 5-6 users
- 1200 L/day
- 260 L peak discharge



SHIVSU WATEC NERO 8

- 7-8 users
- 2000 L/day
- 390 L peak discharge



SHIVSU WATEC NERO 10

- 9-10 users
- 2000 L/day
- 500 L peak discharge



SHIVSU WATEC NERO 12

- 11-12 users
- 2500 L/day
- 650 L peak discharge

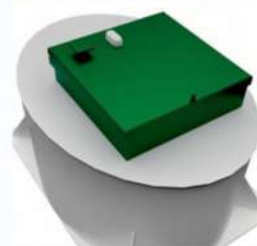
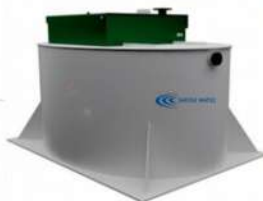


SHIVSU WATEC NERO 15

- 14-15 users
- 3000 L/day
- 750 L peak discharge



“Shivsu Watec Geo” is a compressor-type wastewater treatment system in a low-profile housing. This model is designed for installation in areas with high groundwater levels or shallow bedrock. Geo features the largest receiving chamber among comparable horizontal treatment systems. In the event of excessive peak discharge, it provides additional reserve capacity, ensuring uninterrupted operation of the treatment cycle. The unit is equipped with a factory-installed alarm system.



Low-profile housing for high groundwater levels and difficult soil conditions



Easily withstands periods without users



The risk of wastewater flooding of electrical components is eliminated



Does not require frequent servicing



Does not require removal (disassembly) of main components during maintenance



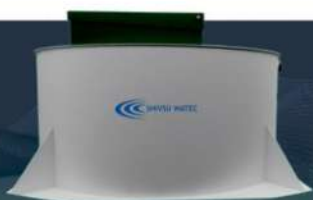
No electromagnetic valves or liquid level sensors controlling operation cycles



An alarm system is included in the price of the unit

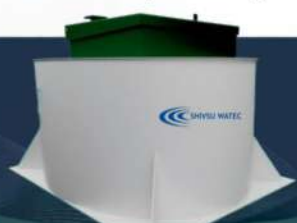


Handles accidental ingress of insoluble objects into the receiving chamber without major issues



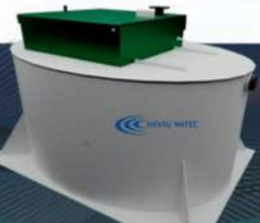
SHIVSU WATEC GEO 3 PR

- 2-3 users
- 1000 L/day
- 200 L peak discharge



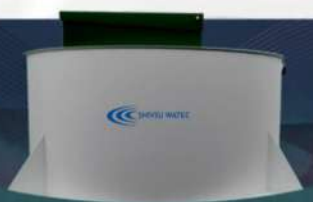
SHIVSU WATEC GEO 4 PR

- 3-4 users
- 1200 L/day
- 250 L peak discharge



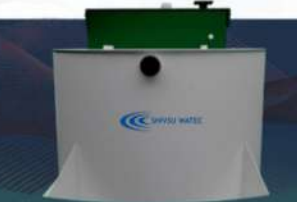
SHIVSU WATEC GEO 5 PR

- 4-5 users
- 1500 L/day
- 330 L peak discharge



SHIVSU WATEC GEO 6 PR

- 5-6 users
- 1700 L/day
- 390 L peak discharge



SHIVSU WATEC GEO 8 PR

- 7-8 users
- 2000 L/day
- 450 L peak discharge



SHIVSU WATEC GREASE SEPERATOR

A grease separator is designed to capture and accumulate non-emulsified fats and oils from kitchen wastewater prior to discharge. Problems in sewer systems may be caused by insoluble fat residues; therefore, special treatment equipment is required to prevent such issues. Owners of restaurants, cafés, canteens, as well as food, fish, and meat processing enterprises are recommended to install grease separators. This equipment is intended for preliminary treatment and partial oxidation of excess fats in wastewater and should be installed at all food service establishments and food production facilities.



Equipment Tightness. Due to the sealed housing design, the ingress of foreign liquids into the filter is prevented.



Practicality and Versatility. The system allows installation of various additional devices. A sensor for detecting the accumulation of harmful substances is in high demand.



No Unpleasant Odors. Thanks to the sealed housing, unpleasant odors generated during fat decomposition do not enter the premises.



Easy Installation. Installation of grease traps indoors does not require special skills and is completed in four stages.



Easy Maintenance. Most grease trap models can be cleaned manually without special effort, using basic tools.



Service Life. All equipment is made of high-quality, wear-resistant materials, ensuring long service life.



Model	Capacity, L/h	Max. flow rate, L/s	Weight, kg
GS-1	3600	1	85
GS-2	7200	2	125
GS-3	10800	3	141





Storage tanks are designed for the accumulation and storage of various types of liquids. They are suitable for both the food and chemical industries. They can also be used for technical waste. Polypropylene tanks manufactured by "SHIVSU PIELKENROOD" are produced in accordance with technical specifications and are used for the accumulation, distribution, and storage of various types of liquids (drinking and industrial water, liquid food products, chemical solutions, domestic, storm water, and industrial wastewater, etc.). Taking into account the properties of the material, the tanks can withstand loads from oil pressure and groundwater. The tanks are made of polypropylene, which is resistant to corrosion.



Resistance to aggressive substances



High strength combined with low weight



Resistance to moisture and UV exposure



Ease of installation, operation, and maintenance



TANK EP 3

Weight: 150kg
Unit width
1400 mm
Unit height
2200 mm



TANK EP 5

Weight: 250kg
Unit width
1800 mm
Unit height
2250 mm



TANK EP 10

Weight: 470kg
Unit width
1400 mm
Unit height
2900 mm

1

Storage tanks can be used as storage solutions for both the chemical and food industries. The tanks feature a user-friendly design, universal mounting platforms, and integrated installation elements.

2

The tanks are available in white (for underground installation) and green (for above-ground use). This is a modern solution for liquid storage in both domestic and industrial applications.



"SHIVSU PIELKENROOD" Company also manufactures custom tanks and reservoirs based on the customer's technical specifications.



The tanks are made of polypropylene, which is resistant to corrosion. The service life of the product is at least 50 years.

SHIVSU PIELKENROOD WATEC LIMITED

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