



Experience the higher level of hygiene & comfort

with Puzer Unconventional System



Puzer-RoeVac Vacuum Sewer System

Puzer-Roevac Vacuum Sewerage System combines the experience and know-how of Roevac in such system with Puzer's in depth market knowledge and expertise in Vacuum Technology.

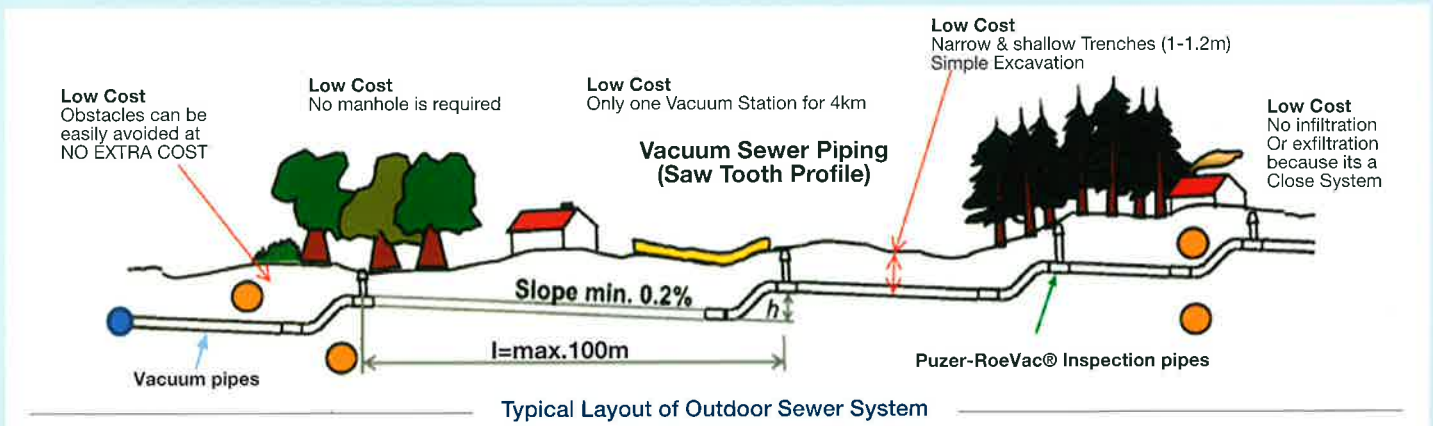
Outdoor - Puzer-RoeVac Vacuum Sewer System

Vacuum Sewer System offers significant cost saving as compare to conventional gravity sewer or pressure sewer system.

The Unique Features of the Puzer-RoeVac Vacuum Sewer System make it very suitable for implementation in :

- Flat Terrain – such as Reclaimed Land
- Expanded Municipalities, Residential, Tourist, Industrial and Commercial Areas, Harbours, Marinas
- Area with high Ground Water Tables
- Trenching in rocky and sandy environment
- Ecologically sensitive areas (ground water)

As it is a vacuum system, the risk of sewerage leakage is removed. Hence, there is no risk that the ground water will be contaminated in Ecologically Sensitive Areas or Areas that ground water is the main source of drinking water.



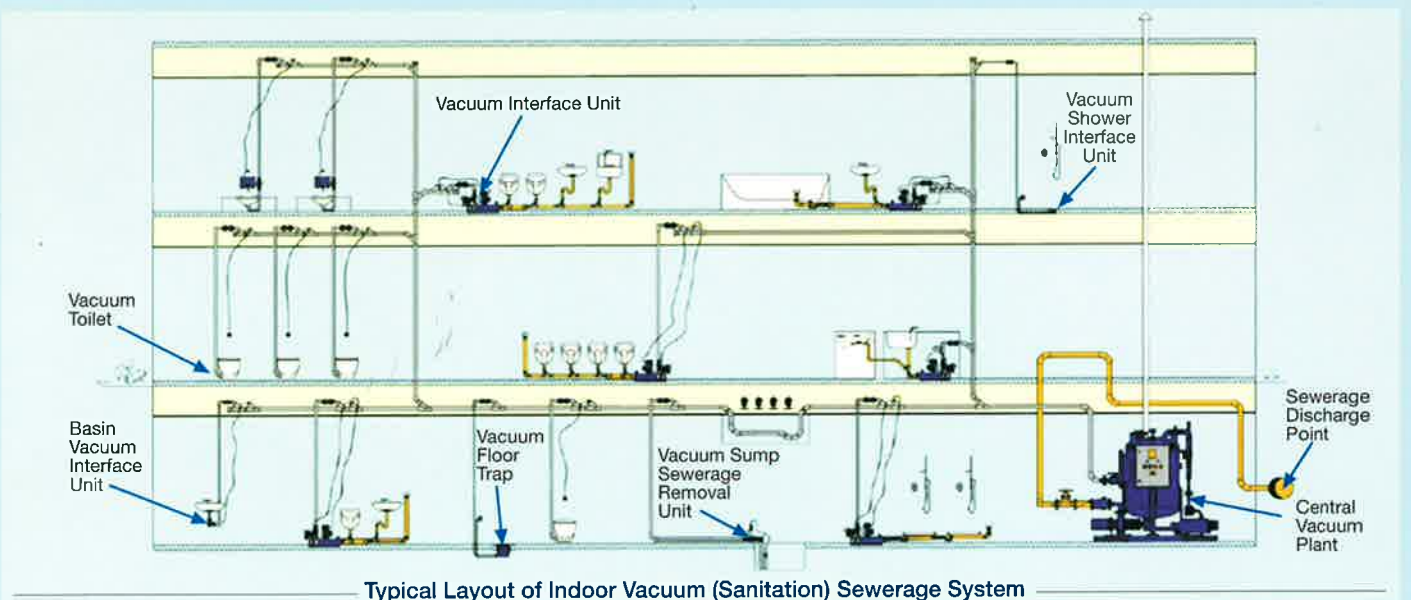
Puzer-RoeVac Vacuum Sanitation System

Puzer-RoeVac vacuum toilets require only 1 litre of water per flush. Compared with conventional toilets that use between 6 to 10 litres per flush, the Puzer-RoeVac vacuum toilets can significantly save our precious water by up to 85%.

The systems offer enormous flexibility in piping layout. Main pipes can be installed in suspended ceiling, giving the possibility of connecting sanitation units from levels above and below to one single collection pipes. Pipelines do not need to be laid to a slope and are independent of natural slope.

Black water and Grey Water Separation become easier. Grey Water can be easily collected and recycled for other uses.

Ideal for developments such as railway stations; airports; restaurants; hotels; hospitals; office buildings; shopping malls, etc that has high human traffic - high saving in water consumption.



The answer to every waste disposal problems

Puzer Pneumatic Refuse Collection

Puzer Pneumatic Refuse Collection System is a simple conveying system designed to transport refuse within a district, development or building. Air is used to carry the refuse within hidden pipes, negating the necessity of employing trucks or labour and making the collection process very hygienic, clean, silent and efficient. Using vacuum technology further ensures that all associated odours from refuse are kept within the system, which is also very flexible and modular in form. The central station, once ready, could be utilized to serve any development within a radius of up to 1500 metres or more.

New buildings built within the development could join the system to have their refuse removed at any time. This system, integrated with Puzer Xmit System in the buildings within the development, leads to the possibility for different types of refuse to be stored in different areas of the development at the stroke of a computer key. This makes the refuse recycling effort very efficient.

Basic Puzer Pneumatic Refuse Conveying System

Basic Puzer Pneumatic Refuse Conveying System serves refuse chutes with hopper for refuse disposal on every level of a building, or feeder stations that act as temporary holding stations. It comprises a network of refuse conveying pipes which connect each building or refuse chute or feeder station to the central station, which produces the suction power, and also to collection stations, where refuse is stored (or compacted and stored) in containers, pending removal by truck to incineration plants or dumping sites.



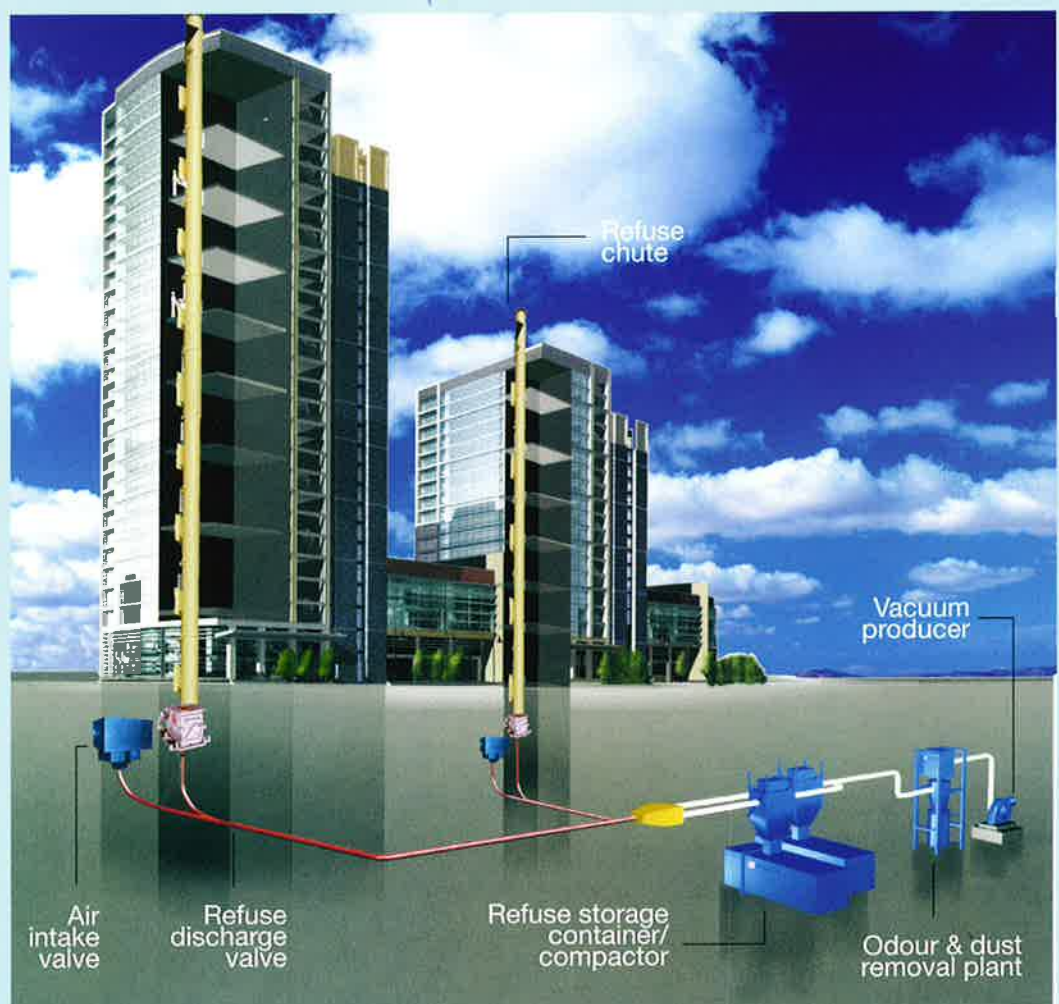
vacuum producers



compressed air system



buried refuse pipes



Typical Schematic of a Basic Puzer Pneumatic Refuse Conveyance System

Puzer Hardie-Chute

Puzer Hardie-Chute System is a proprietary chute system developed by our partner, James Hardie. It is simple, fast to install and not need to be built together with the building. It works best with prefabricated construction development. Made of Puzer Cellulose Fibre Pipe, it has a 4 hour fire integrity with a 37 dB sound attenuation, making it noise-free.



Puzer Refuse Hopper

This refuse hopper is provided at each floor of an establishment to allow access to the refuse chute for disposal of refuse by the user. One unique feature of the Puzer Hopper is its automatic cushion control which prevents it from slamming against its frame when it is released after the refuse is deposited within. This prevents loud banging noises, a prerequisite for installations in up-market residential developments.

Puzer Compact

Puzer Compact provides a simple approach to handling a big volume of refuse from a simple chute. Although compact in size, Puzer Compact gives a compaction ratio of 1 to 5, and could be configured to serve up to eight 120-litre refuse trolleys. A simple sensor ensures that no trolley is overloaded and since the compactor also removes the fluid from any wet refuse, this system is practically odour-free. Compacting trash in this manner ensures that it does not overflow.



Refined & Unconventional Way of Waste/Water Disposal



enjoy cleaner & more
hygienic surroundings



improve quality of living

Puzer Unconventional offers total convenience and incomparable standards of hygiene in waste/water disposal. Eliminating odours, quiet and practically invisible, the system sees to it that you won't even know your waste has been disposed of.

Puzer Unconventional, the unconventional & refined way to dispose waste/water.



Conventional waste disposal

The process of managing refuse has not changed much despite the fact that in our modern times great advances in technology have been made. The usual scenario will be that trash is stored in a temporary place before being transported to dumping sites. We have to put up with the unpleasant sight of piling bags of rubbish and the odour that they emit, which together attract pests. This conventional method of waste disposal is clearly unhygienic and inconvenient, yet we are so used and resigned to all the problems it causes.

Puzer Unconventional offers a different concept of waste disposal system without changing the way an ordinary person disposes of waste. You dispose of waste like you always do, and the Puzer Unconventional system will take care of the rest. It's definitely the premier choice offering a different approach for people who expect a higher standard of living and appreciate a higher level of hygiene and comfort.



pile of wastebags



dumping site



manual trash disposal



Puzer Asia Pte Ltd

(Registration No. 199705389N)

21 Marsiling Industrial Estate Road 9 Singapore 739175

Tel: (65) 6755 6169 Fax: (65) 6755 2801

email: puzer@pvsin.com.sg www.pvsin.com.sg

A Subsidiary of PV Vacuum Engineering Pte Ltd
(Registration No. 200002366R)