

## DEPARTMENT OF PUBLIC WORKS

NO. 292

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## AGRÉMENT SOUTH AFRICA

(Approval of innovative construction products and systems)

Notice is hereby given that Agrément South Africa has, with effect from 06 August 2015, issued an Agrément certificate, details of which appear in the schedule hereto.

## SCHEDULE

Agrément Certificate 2015/491

**Name of product:** Jets Vacuum Sanitation System

**Certificate holder:** SA Biotech (Pty) Ltd

**Description:** Jets Vacuum Sanitation System is a vacuum sewage collection and transport system designed for single or multiple flushing of toilets. The system is manufactured in Norway and supplied by SA Biotech (Pty) Ltd, based in Benmore, Johannesburg.

The vacuum toilet system uses air, as opposed to water for the transport of sewage. A Jets Vacuumarator™ evacuates air from the drain pipes automatically upon activation of the activator button. A valve opens in the toilet, and the difference in air pressure that results causes the sewage to be flushed. Jets Vacuumarator™ shreds the sewage whilst pumping it towards a collection tank, a BIOTank or to the sewage mains. Potable water (1 litre) is automatically fed to the toilet as part of the cycle, ensuring good hygiene with minimum water consumption.

The Jets Vacuumarator™ is the main component of the vacuum system. The vacuumarator is a viscous monoblock pump fitted with blades. It extracts the sewage and then shreds it into tiny particles all in one operation. The vacuumarator handles air and liquids as well, combining both elements at once. Thus it can be used to produce a vacuum, or for suction and pumping of liquids.

A grey water tank is used in the system where the drains from sinks, showers etc. are connected to the vacuum system. The waste water is fed to the tank via a gravity feed system. The tank is fitted with a drain valve connected to the vacuum system and when full, it empties automatically via the vacuumarator.

There are two types of Jets Vacuum Sanitation Systems namely:

**VOD (Vacuum on Demand)**

A VOD™ system creates vacuum in the piping only when a toilet is flushed. A maximum of four toilets can be connected to this system (up to 10 with add-on equipment). The maximum lift height from toilets on the vacuum side is 800 mm and 2000 mm (10NT model) or 5000 mm (15NT model) on the pressure side

(according to sea level).

**CVS (Constant Vacuum System)**

A CVS™ system maintains a constant, pre-set vacuum level in the piping system.

The maximum lift height from toilets in the CVS™ system is 3000 mm on the vacuum side and 5000 mm on the pressure side (according to sea level).

The Agrément certificate contains detailed information on the product and can be accessed at <http://www.agrement.co.za>

Copies are obtainable from: Chief Executive Officer (CEO)  
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