



Vacuum Toilet Service Unit - VTS

The VTS is designed to fulfil customers' preferences and specific needs, and is built exclusively using first class components. It is based on a standard truck chassis of customers' choice, ensuring availability of spare parts and easy maintenance.

All major components in the vacuum, fluid, hydraulic and electrical systems are standard and thoroughly tested, and mounted in the machine room, where large hinged "gull-wing"-type doors provide excellent accessibility. Parts and cables are clearly marked according to the diagrams to facilitate maintenance.

The stainless steel tanks are placed in the centre of the vehicle and are accessible through manholes. The waste tank is actively cleaned using spray nozzles, activated during waste dumping through the hydraulically operated valve.

The VTS is available with a batch mix-system for mixing disinfectant and water, as specified by the user.

The fluid system and tank section are fully insulated for winter protection, and optio-

nal anti-freeze heater systems are available, including a coupling heater in the basket to protect against freezing. The optional steam generator efficiently removes ice from aircraft hatch and piping.

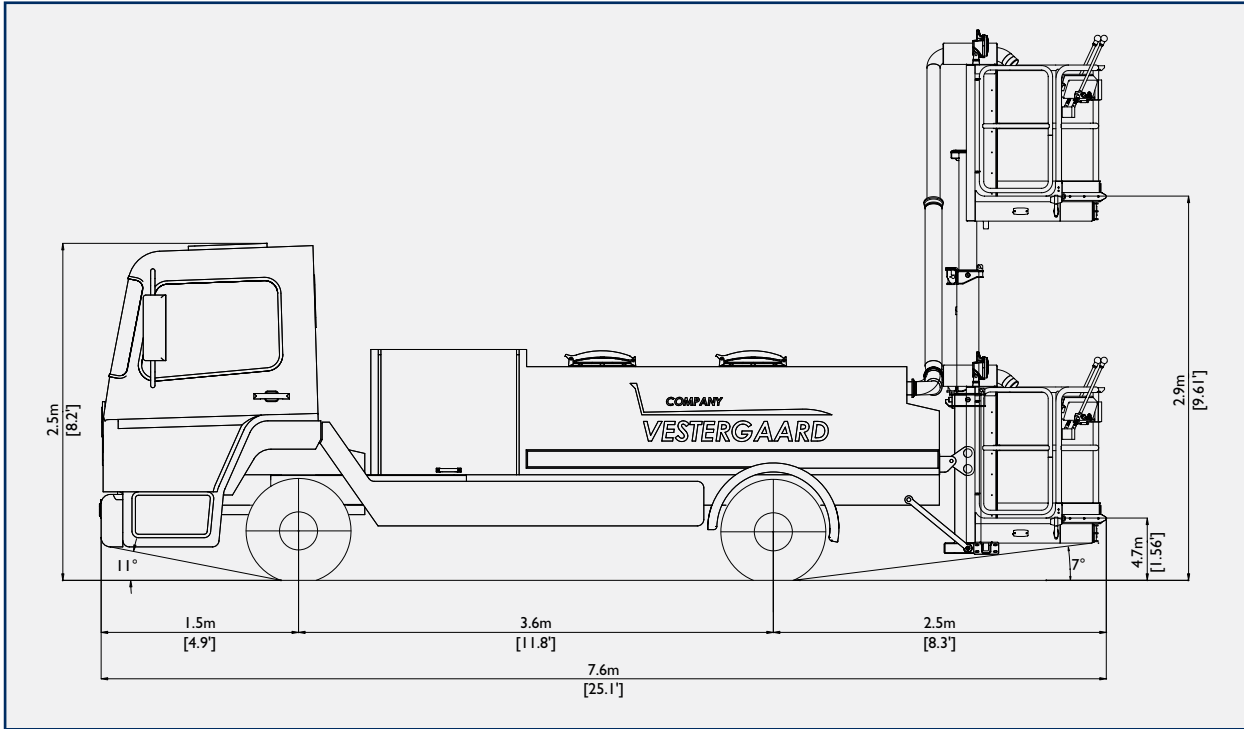
To facilitate handling of all aircraft types (including the Airbus A380), the VTS can be equipped with an elevating basket. The spacious basket - at full truck width - is easily entered from the ground level. The waste hose and the flush/filling hose are in the basket.

Ergonomically optimized, the basket is equipped with a user-friendly control panel that gives the operator a clear view of all the necessary functions, both when servicing smaller aircraft (standing at ground level) and larger aircraft (standing in the basket).



MAJOR ADVANTAGES

- *Powerful vacuum evacuation system for ultimate efficiency and safety*
- *Reduced time and cost per operation*
- *Reduced manpower consumption*
- *Hygienic operator's environment*
- *Large vacuum tank capacity*
- *Reduced demand for flush*
- *Prevents blockages, leakages and formation of ice at aircraft valves*
- *Elevating operator's basket for serving all types of aircraft*
- *Unsurpassed unit lifetime and low maintenance costs*



Specifications

Max. working height:	4.80 m (15.7")
Max. vacuum:	0.25 bar (3.5 psi) differential pressure (reached within 8-10 sec)
Max. flushing flow:	100 l/min @ 3.5 bar
Max. flushing pressure:	3.5 bar (50 psi)
Total tank capacity:	3,000 litres (795 gal US) or 5,000 litres (1,325 gal US)
Waste tank capacity:	1,800 litres (475 gal US) or 3,500 litres (928 gal US)
Flush tank capacity:	1,200 litres (320 gal US) or 1,500 litres (397 gal US)

Tank section insulated for winter operations

Return suction in flush line

On-board PLC

Optional features include:

- Heating system
- Optional steam generator for de-icing of service point
- Anti-collision systems (mechanical or ultrasonic)

Chassis Cabin Panel

- Control light for engaged PTO
- LED level indication for all tanks
- Low level shut-down
- Light switches
- Emergency stop push-button

Basket Control Panel

- Basket up/down
- Water/disinfectant on/off
- Vacuum pump on/off
- Pre-selection of fluid
- Vacuum valve open/close
- Emergency stop push-button
- Fluid counter with flowmeter