

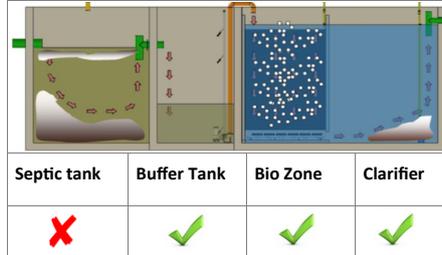
Venus

Product Description

BioKube's Venus systems are small STP plants most commonly used for single or smaller groups of households.

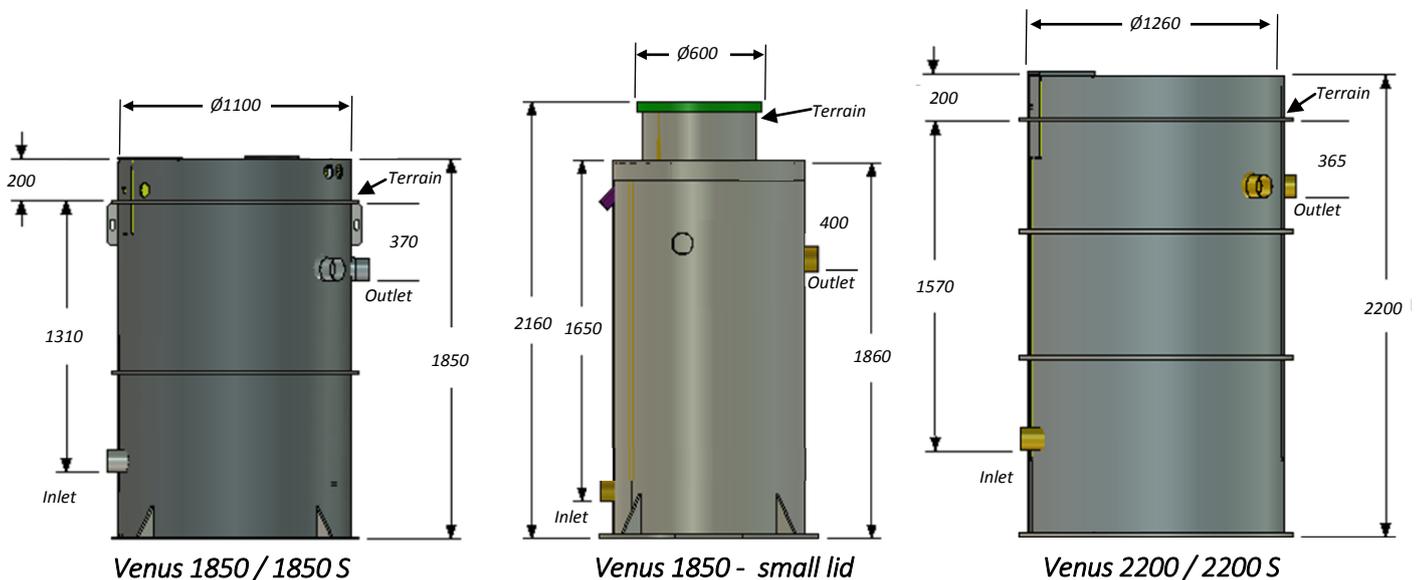
The Venus systems are typically installed after a septic tank either in- or above ground.

Integrated Treatment Steps



Venus installed at a farm house

Dimensions & Pipe Placement



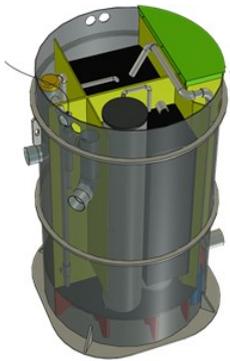
	Venus 1850	Venus 1850, S	Venus 1850 - small lid	Venus 2200	Venus 2200, S
Height (mm)	1,850	1,850	2,160	2,220	2,220
Diametre (mm)	1,100	1,100	600/1,010	1,260	1,260
Weight (kg)	220	220	200	300	300
Weigth with Water (kg)	1400	1400	1400	2300	2300
Power consump. (kwh/year)	450	650	450	900	1000
Size of Internal Pump well (L)	300	300	300	400	400
Tank Material	PP	PP	PP	PP	PP
Piping Material	PVC	PVC	PVC	PVC	PVC
Outlet/Sludge Return Pipe (mm)	110/110	110/110	110/110	110/110	110/110
Capacity (L/day)*	625-900	700-1800	625-900	1250-2700	2000-3600
Capacity, PE */**	5-10	5-10	5-10	10-15	15-20

* Capacity varies according to input characteristics & output requirements

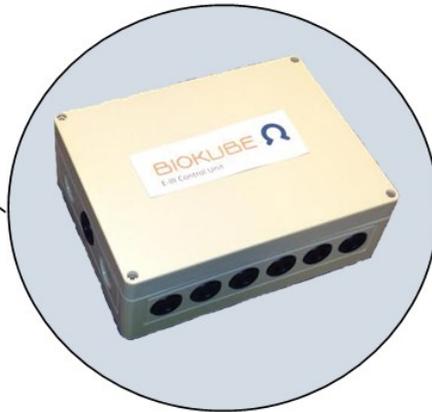
** 1 PE = 60g BOD, 13 g Ntotal, and 2,5 g Ptotal, 125-180 L/day

Venus

Control Components



Venus



BioKube E-III Control Unit

BioKube E-III Control Unit

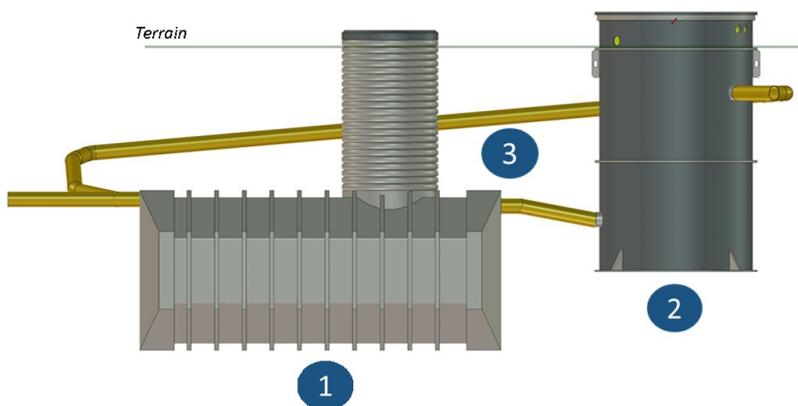
All electrical component in the Venus Unit; e.g. Blowers, pumps, UV Units , are integrated and connected to the BioKube E-III control unit, from where the power is distributed and controlled.

The Control Unit is placed in the internal control room (see drawing).

The plant is normally powered with 230 Volt, 1 phase power supply. The maximum currencty is 2.5 Amperes depending on the number and size of components installed.

Systems for 110V power supply regions can be supplied upon request.

Full Installation Principles



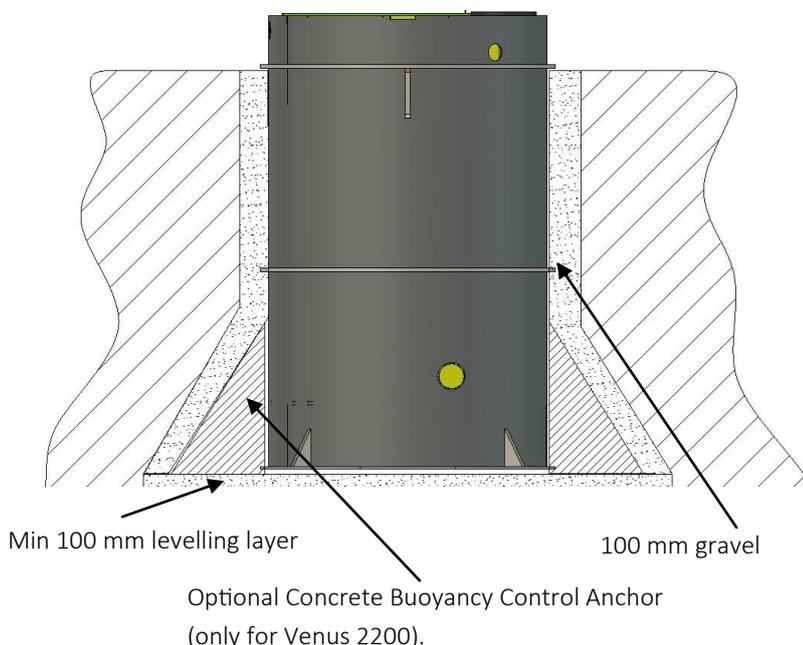
Installation Components

The Venus Systems are typically installed in ground after a septic tank. The septic tank should be supplied locally from one of many standard suppliers. Alternatively it can be casted on site in concrete.

- 1 Septic tank
- 2 Venus wastewater treatment plant
- 3 Sludge return pipe

For more information see the installation manual

Construction Principles - Backfilling



Backfilling

The system requires to be installed on a level and compressed surface (e.g. gravel layer).

When back-filling a 100 mm layer of gravel must be placed around the plant.

In case of high ground water levels it is recommended to cast a buoyancy control concrete anchor around the bottom of the Venus plant.

The Venus plant can also be installed above ground without any additional equipment.

For more information see the installation manual.