BIOKUBE Ω

Pluto

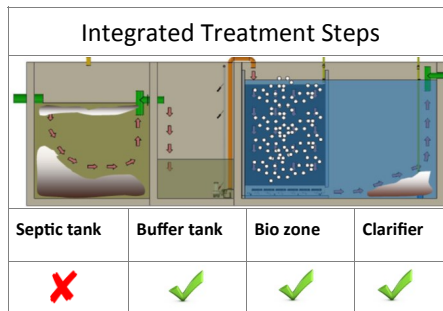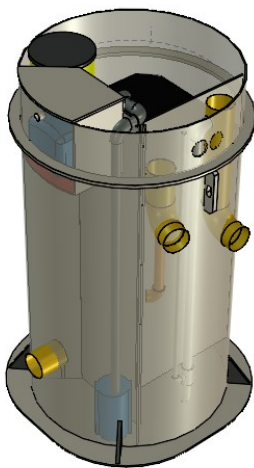### Product description

BioKube's Pluto systems are small STP plants designed for treating sewage water from single households.

The Pluto systems are typically installed after a septic tank either in- or above ground.
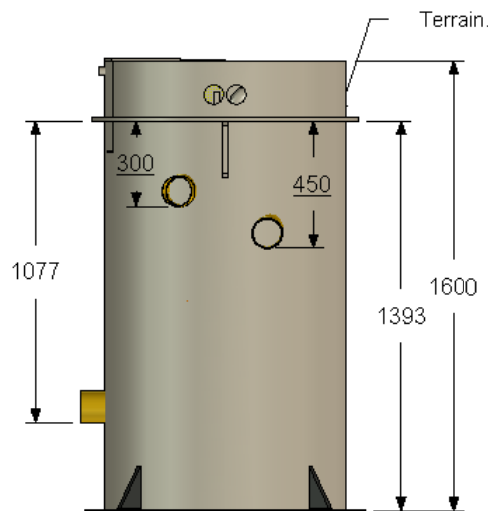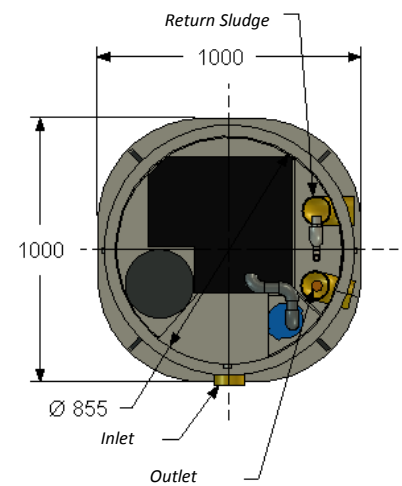
Integrated Treatment Steps

Septic tank	Buffer tank	Bio zone	Clarifier
✗	✓	✓	✓

Pluto installed at a family house

Dimensions & Pipe Placement

X-Ray View of Pluto

Profile View of Pluto

Top View of Pluto

Pluto Specifikations	
Height (mm)	1,600
Diametre (mm)	1,000
Weight (kg)	180
Weigth with water (kg)	1000
Power consumption (kwh/year)	350
Size of internal pump well (L)	200
Tank material	PP
Piping material	PVC
Oulet/sludge return pipe (mm)	110/110
Capacity (L/day)	625-900
Capacity, PE *	5

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

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Pluto

Control Components

Pluto
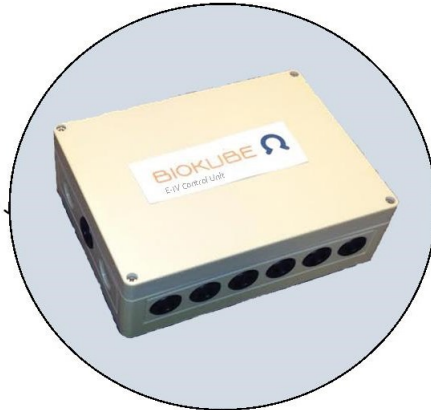
BioKube E-IV Control Unit

BioKube E-IV Control Unit

All electrical component in the Pluto Unit; e.g. Blowers, pumps, UV Units , are integrated and connected to the BioKube E-IV 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 current 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
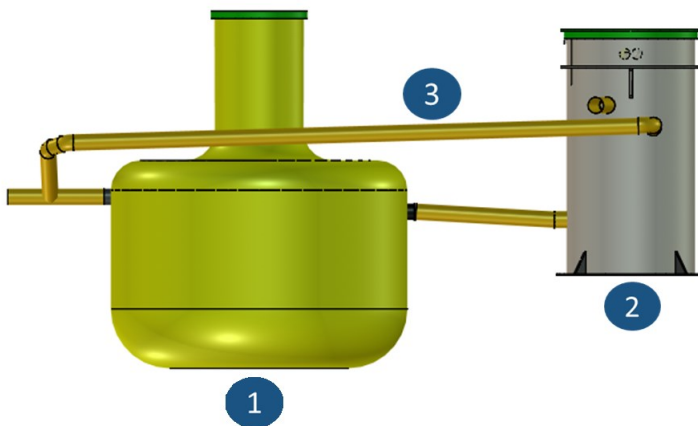
Installation Components

The Pluto 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. Pluto wastewater treatment plant

3. Sludge return pipe

For more information see the installation manual

Construction Principles - Backfilling
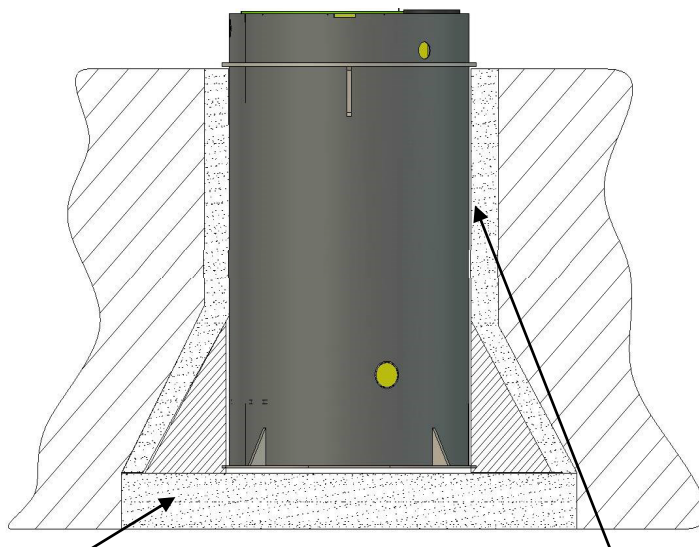
Min 100 mm levelling layer   100 mm gravel

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.

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

For more information see the installation manual.