FACT SHEET

BIOKUBE

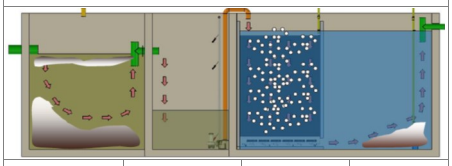
Mars 3000

Product Description

BioKube's Mars systems are small STP plants most commonly used for single households or smaller residential groups producing up to 30 m³ wastewater a day.

The Mars 3000 system is typically installed after a septic tank either in- or above ground.

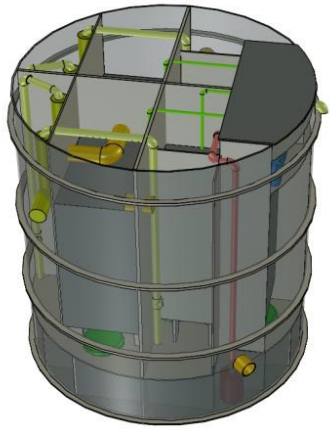
Integrated Treatment Steps



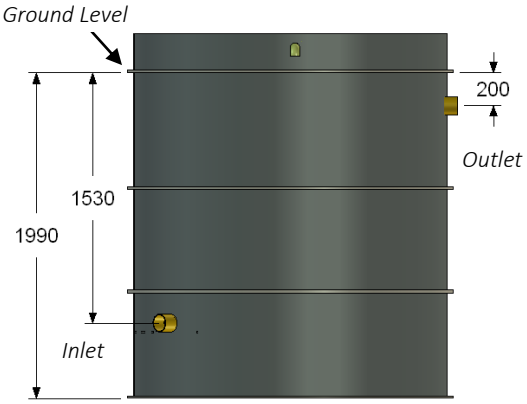
Septic tank	Buffer Tank	Bio Zone	Clarifier
✘	✓	✓	✓

Mars 3000 installed at Boarding School

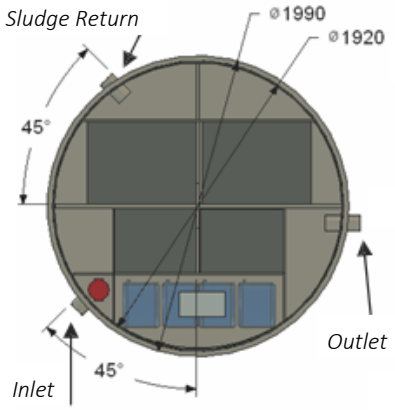
Dimensions & Pipe Placement



X-Ray View of Mars 3000



Profile View of Mars 3000



Top View of Mars 3000

	Mars 3000, 2C	Mars 3000, 3C	Mars 3000, 4C
Height (mm)	2,220	2,220	2,220
Diametre (mm)	2,000	2,000	2,000
Weight (kg)	550	570	590
Weigth with Water	5,950	5,970	5,990
Power consumption (kwh/year)	1,700	2,400	3,100
Size of Internal Pump well (L)	1,200	1,200	1,200
Number of Blowers (pcs)	2	3	4
Tank Material	Polypropylene	Polypropylene	Polypropylene
Piping Material	PVC	PVC	PVC
Oulet & Sludge Return Pipe (mm)	110	110	110
Waterload (m³/day)	3.0-6.0	4.5-6.0	6.0-7.5

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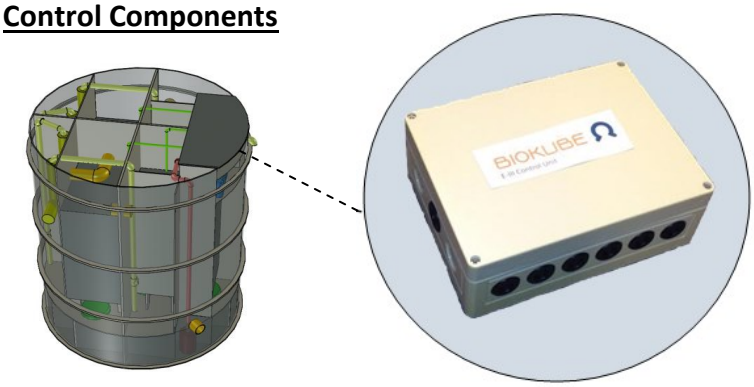
Mars 3000

Control Components



Mars 3000

BioKube E-III Control Unit

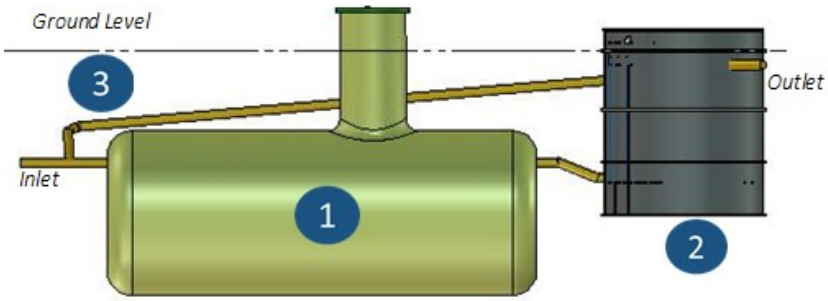
BioKube E-III Control Unit

All electrical component in the Mars 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 currency is 2.5 Amperes depending on the number of pumps installed.

Full Installation Principles



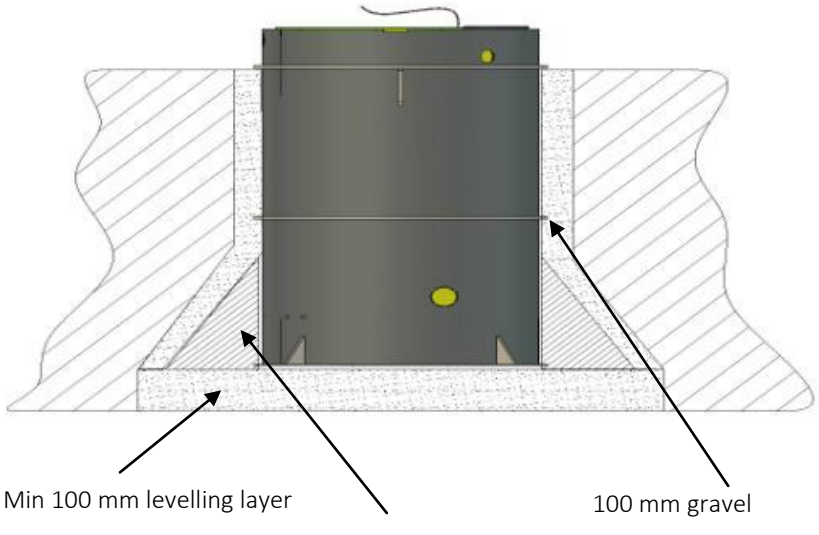
Installation Components

The Mars Systems is 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. Mars 3000
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 Mars plant.

The Mars 3000 can also be installed above ground without any additional equipment.

For more information see the installation manual.