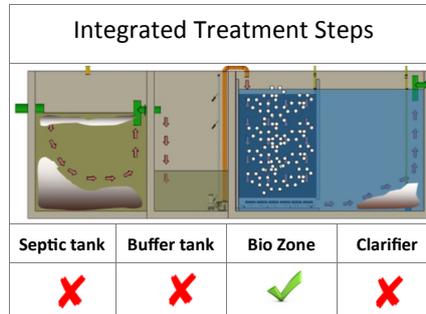


Orion

Product Description

Orion systems are larger STP plants designed for placement on a concrete casted floor, with on-site casted concrete support walls, most commonly used for treating wastewater from villages, factories and resorts with daily water amount of more than 100 m³.

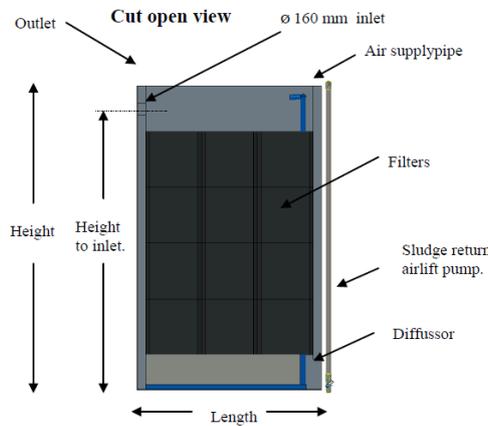


Multiple Orion Units installed

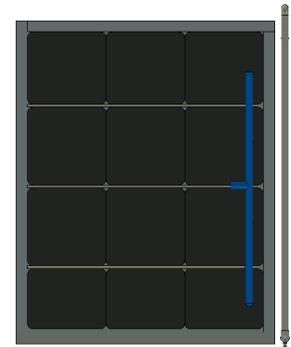
Dimensions and Pipe Placement



3D View of an Orion System



Cut Open View of an Orion System



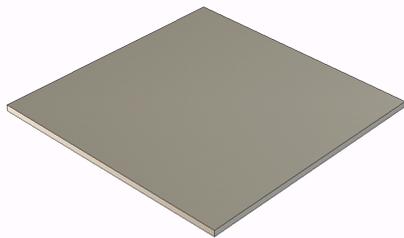
Top View of an Orion System

Orion Model Specifications				
	150	200	250	300

	150	200	250	300
Height (mm)	3,500	3,950	4,500	5,200
Width (mm)	2,280	2,280	2,280	2,280
Length (mm)	2,220	2,220	2,220	2,220
Weight (kg)	1,850	2,050	2,225	2,450
Weight with Water (kg)	13,850	16,450	19,225	21,850
Power consump.(kwh/day/unit)	50.5	55.7	60.8	64.6
Height to inlet (mm)	3,230	3,230	3,780	4,480
Inlet/Outlet Pipe Diametre (mm)	110/110	110/110	110/110	110/110
Tank Material	PP	PP	PP	PP
Airpiping Material	PVC/SS	PVC/SS	PVC/SS	PVC/SS
Max Waterload pr. unit (m ³ /day)	15-164	18-195	21-233	24-267
No. of electrical Phases Required	3	3	3	3

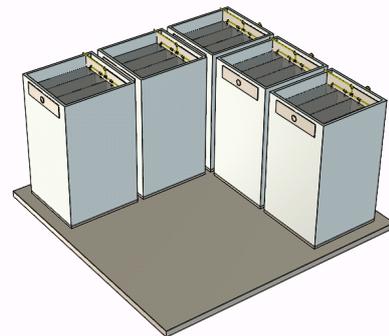
Orion

Construction Principles



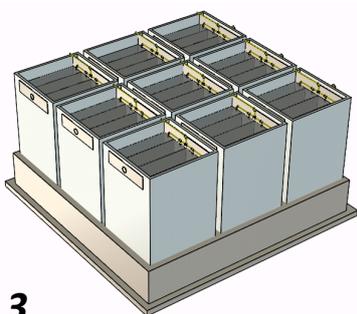
Step 1

A rough concrete floor must be casted on which the Orion systems are to be placed.



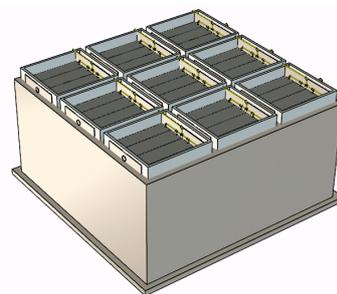
Step 2

The Orion systems are placed with min 15 cm of space to each side of units.



Step 3

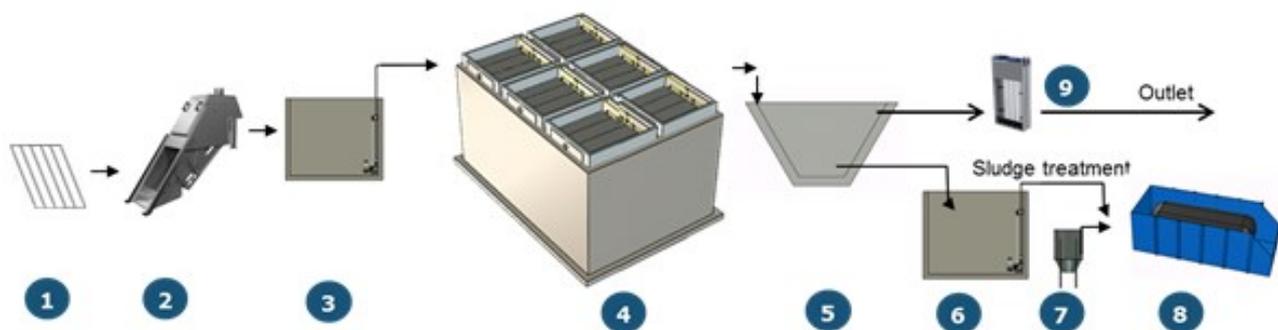
Concrete is filled in between all spaces and outside the Orion's to a height of one meter. Concrete must harden prior to step 4.



Step 4

All spaces outside and between the Orion systems are filled out with concrete to the height of 40 cm below the edges of the Saturn tanks.

Full System Installation Principles—example



Step #	Name of step
1	Coarse Screen
2	Meva Screen
3	External Pump Well
	Inlet pump system
4	Biological treatment zone – 4 BioKube Orion 250

Step #	Name of step
5	Secondary Clarifier
6	Sludge pit
	Sludge pump
7	Geotube Machine
8	Geotube Bags placed in ½-sized open top container
9	UV disinfection unit