

BioContainers

Technical Brochure

Mobile Containerized Sewage Treatment Plants





BioContainer 20' Combi IB

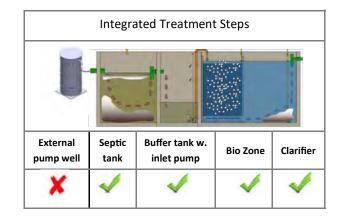


Configuration

Product Description

The BioContainer "20' Combi IB" version has all cleaning steps integrated and is hence regarded as a fully transportable system.

BioContainer Systems are containerized Sewage Treatment Plants, most commonly used for treating waste water at camps, oil rig sites & remote locations. BioContainer comes in different versions of integration of cleanings steps, transportability and capacity. The systems are typically installed above ground for non-permanent installations.



Treatment Concept

External Pump Well: The raw sewage water is transferred from the lifting station which is equipped with an inlet pump to the BioContainer's buffer tank.

Buffer Tank: The integrated buffer tank evens out fluctuating of the incoming volume of wastewater from the source. It allows a stable timed inflow to the Biological Treatment Chamber. Septic Tank: The septic tank is used as pre-treatment for settling the suspended solids and storage of the sludge. The septic tank is an integral part of the BioContainer product.



Biological Zone: In the Biological Treatment Chamber microorganisms perform degradation of the organic load of the in-coming wastewater to the required levels. The treatment chambers consist of submerged aerated filters where wastewater flows through. The air is distributed by diffusers positioned underneath the bio-filters.

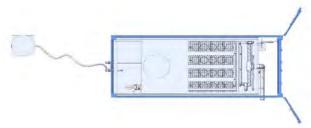
Clarifying Zone: The Clarifier Zone is allowing for the continuous removal of solids (bio-sludge) by sedimentation. From the clarifying zones the bio-sludge is recirculated frequently to the septic tank. **Control Room:** The control panel, blowers and secondary treatment equipment are secured inside the control room part of the BioContainer.

BioContainer 20' Combi IB

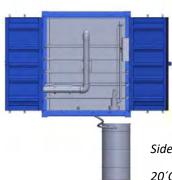
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Key specifications

| Dimension | Value | | | | |
|--------------------------------------|-----------------|--|--|--|--|
| Height (mm) | 2,900 | | | | |
| Width (mm) | 2,440 | | | | |
| Length (mm) | 6,060 | | | | |
| Weight (kg) | 4,800 | | | | |
| Weight with water (kg) | 19,000 | | | | |
| Power consumption (kw/day) | 39.4 | | | | |
| Inlet Pipe connection | Flex pump hose | | | | |
| Outlet height (mm) | 1,000 | | | | |
| Inlet/oulet pipe diametre (mm) | 110/110 | | | | |
| Tank Material, inner tank | PP, UV-stabl. | | | | |
| Air piping material | Stainless Steel | | | | |
| Outlet & sludge return pipe (mm) | 110 | | | | |
| Power requirement | 3 Phase | | | | |
| Capacity* at effluent Class Normal** | 240 PE | | | | |
| Capacity* at effluent Class High*** | 85 PE | | | | |



Top View of BioContainer 20'Combi IB



Side View of BioContainer 20'Combi IB

1 PE = 60g BOD, 12 g N-total, 2.5 g P-total, 150L/day **

Effluent Class Normal : BOD < 25 mg/liter Effluent Class High: BOD < 10 mg/liter, NH4 < 5 mg/liter, 50 % TN reduction.

Reference Case: Remote Camp-Papua New Guinea



This BioContainer is used in various remote sites around Papua New Guinea and is transported by truck / barge. The BioContainer treats wastewater from the entire camp and the treated water can safely be released out to the environment

BioContainer 40' Combi IB

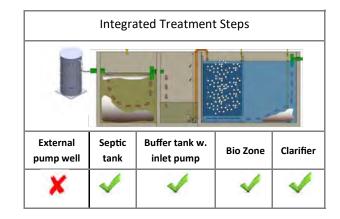


Configuration

Product Description

The BioContainer "40' Combi IB" version has all cleaning steps integrated and is hence regarded as a fully transportable system.

BioContainer Systems are containerized Sewage Treatment Plants, most commonly used for treating waste water at camps, oil rig sites & remote locations. BioContainer comes in different versions of integration of cleanings steps, transportability and capacity. The systems are typically installed above ground for non-permanent installations.



Treatment Concept

External Pump Well: The raw sewage water is transferred from the lifting station which is equipped with an inlet pump to the BioContainer's buffer tank.

Buffer Tank: The integrated buffer tank evens out fluctuating of the incoming volume of wastewater from the source. It allows a stable timed inflow to the Biological Treatment Chamber. Septic Tank: The septic tank is used as pre-treatment for settling the suspended solids and storage of the sludge. The septic tank is an integral part of the BioContainer product.

Clarifying Zone: The Clarifier Zone is allowing for the continuous removal of solids (bio-sludge) by sedimentation. From the clarifying zones the bio-sludge is recirculated frequently to the septic tank **Control Room:** The control panel, blowers and secondary treatment equipment are secured inside the control room part of the BioContainer. Biological Zone: In the Biological Treatment Chamber microorganisms perform degradation of the organic load of the in-coming wastewater to the required levels. The treatment chambers consist of submerged aerated filters where wastewater flows through. The air is distributed by diffusers positioned underneath the bio-filters.

BioContainer 40' Combi IB

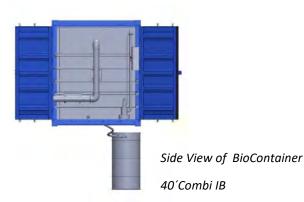
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Key specifications

| Dimension | Value | | | |
|--------------------------------------|-----------------|--|--|--|
| Height (mm) | 2,900 | | | |
| Width (mm) | 2,440 | | | |
| Length (mm) | 12,190 | | | |
| Weight (kg) | 9,500 | | | |
| Weight with water (kg) | 58,000 | | | |
| Power consumption (kw/day) | 57.7 | | | |
| Inlet Pipe connection | Flex pump hose | | | |
| Outlet height (mm) | 1,000 | | | |
| Inlet/oulet pipe diametre (mm) | 110/110 | | | |
| Tank Material, inner tank | PP, UV-stabl. | | | |
| Air piping material | Stainless Steel | | | |
| Outlet & sludge return pipe (mm) | 110 | | | |
| Power requirement | 3 Phase | | | |
| Capacity* at effluent Class Normal** | 480 PE | | | |
| Capacity* at effluent Class High*** | 170 PE | | | |



Top View of BioContainer 40'Combi IB



* 1 PE = 60g BOD, 12 g N-total, 2.5 g P-total, 150L/day
 ** Effluent Class Normal : BOD < 25 mg/liter
 *** Effluent Class High: BOD < 10 mg/liter, NH4 < 5 mg/liter, 50 % TN reduction.

Reference Case: Japanese Army, Djibiti



The 40' BioContainer Combi IB is been installed at a Japanese Army Camp in a remote desert of Djibouti

BioContainer 20' Combi EB

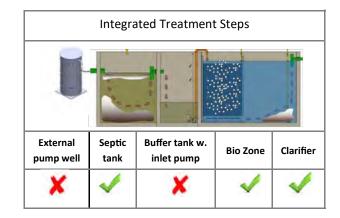


Configuration

Product Description

The "20' Combi EB" version requires an externally installed buffer tank. The system is hence regarded a semitransportable system, allowing parts of the cleaning chain to be transported to alternative locations. BioKube can supply transportable buffer tanks in reinforced plastic material.

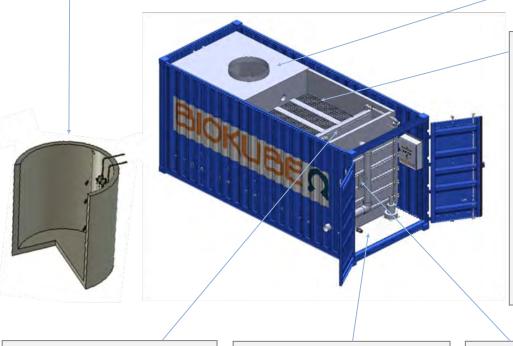
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Treatment Concept

External Buffer Tank / Pump Well: The raw sewage water is transferred from the External Buffer Tank or lifting station which is equipped with an inlet pump to the BioContainer's buffer tank.

Septic Tank: The septic tank is used as pre-treatment for settling the suspended solids and storage of the sludge. The septic tank is an integral part of the BioContainer product.



Biological Zone: In the Biological Treatment Chamber microorganisms perform degradation of the organic load of the in-coming wastewater to the required levels. The treatment chambers consist of submerged aerated filters where wastewater flows through. The air is distributed by diffusers positioned underneath the bio-filters.

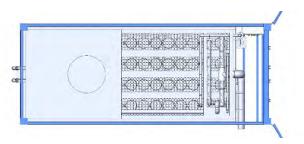
Clarifying Zone: The Clarifier Zone is allowing for the continuous removal of solids (bio-sludge) by sedimentation. From the clarifying zones the bio-sludge is recirculated frequently to the septic tank **Control Room:** The control panel, blowers and secondary treatment equipment are secured inside the control room part of the BioContainer.

BioContainer 20' Combi EB

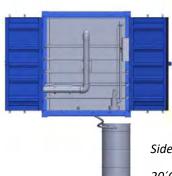
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Key specifications

| Dimension | Value | | | | |
|--------------------------------------|-----------------|--|--|--|--|
| Height (mm) | 2,900 | | | | |
| Width (mm) | 2,440 | | | | |
| Length (mm) | 6,060 | | | | |
| Weight (kg) | 4,800 | | | | |
| Weight with water (kg) | 19,000 | | | | |
| Power consumption (kw/day) | 39.4 | | | | |
| Inlet Pipe connection | Flex pump hose | | | | |
| Outlet height (mm) | 1,000 | | | | |
| Inlet/oulet pipe diametre (mm) | 110/110 | | | | |
| Tank Material, inner tank | PP, UV-stabl. | | | | |
| Air piping material | Stainless Steel | | | | |
| Outlet & sludge return pipe (mm) | 110 | | | | |
| Power requirement | 3 Phase | | | | |
| Capacity* at effluent Class Normal** | 280 PE | | | | |
| Capacity* at effluent Class High*** | 100 PE | | | | |



Top View of BioContainer 20'Combi EB



Side View of BioContainer 20'Combi EB

* 1 PE = 60g BOD, 12 g N-total, 2.5 g P-total, 150L/day

** Effluent Class Normal : BOD < 25 mg/liter</p>
*** Effluent Class High: BOD < 10 mg/liter, NH4 < 5 mg/liter, 50 % TN reduction.</p>

Reference Case: Viking Drilling, Northern Iraq



A total of 7 x BioContainer(s) were installed at Viking Drilling's sites in Northern Iraq. They were delivered as so-called BioContainer 20' Combi, EB units, leaving a complete wastewater treatment solution to treat the wastewater from the camps' personnel consisting of approximatively 300 people.

Trouble free operations

The BioContainers have been running smoothly for years and several of the plants have been relocated to other sites with very simple and hazard free operations. The easy relocation has allowed their drilling activities to be in operation quickly, while at the same time giving the opportunity to use the treated sewerage water for flushing toilets as well as washing and maintaining mining tools.

BioContainer 40' Combi EB

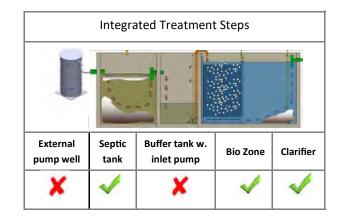


Configuration

Product Description

The "40' Combi EB" version requires an externally installed buffer tank. The system is hence regarded a semitransportable system, allowing parts of the cleaning chain to be transported to alternative locations. BioKube can supply transportable buffer tanks in reinforced plastic material.

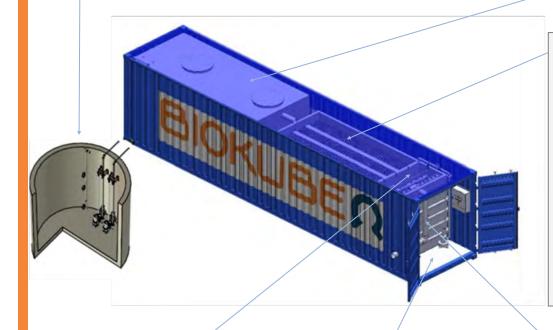
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Septic Tank: The septic tank is used as pre-treatment for settling the suspended solids and storage of the sludge. The septic tank is an integral part of the BioContainer product.



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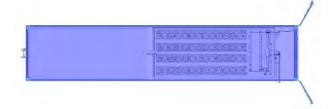
Clarifying Zone: The Clarifier Zone is allowing for the continuous removal of solids (bio-sludge) by sedimentation. From the clarifying zones the bio-sludge is recirculated frequently to the septic tank **Control Room:** The control panel, blowers and secondary treatment equipment are secured inside the control room part of the BioContainer.

BioContainer 40' Combi EB

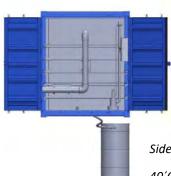
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Key specifications

| Dimension | Value | | | | |
|--------------------------------------|-----------------|--|--|--|--|
| Height (mm) | 2,900 | | | | |
| Width (mm) | 2,440 | | | | |
| Length (mm) | 12,190 | | | | |
| Weight (kg) | 9,500 | | | | |
| Weight with water (kg) | 58,000 | | | | |
| Power consumption (kw/day) | 57.7 | | | | |
| Inlet Pipe connection | Flex pump hose | | | | |
| Outlet height (mm) | 1,000 | | | | |
| Inlet/oulet pipe diametre (mm) | 110/110 | | | | |
| Tank Material, inner tank | PP, UV-stabl. | | | | |
| Air piping material | Stainless Steel | | | | |
| Outlet & sludge return pipe (mm) | 110 | | | | |
| Power requirement | 3 Phase | | | | |
| Capacity* at effluent Class Normal** | 560 PE | | | | |
| Capacity* at effluent Class High*** | 200 PE | | | | |



Top View of BioContainer 40'Combi EB



Side View of BioContainer 40'Combi EB

1 PE = 60g BOD, 12 g N-total, 2.5 g P-total, 150L/day Effluent Class Normal : BOD < 25 mg/liter Effluent Class High: BOD < 10 mg/liter, NH4 < 5 mg/liter, 50 % TN reduction.

Reference Case: Commissioning of Plant and Training



BioContainer installation in Papua New Guinea where mobility for the plant is an essential requirement. This plant can moved around to various sites. The BioContainer can easily be lifted and carried by a truck. BioKube technician was onsite to ensure the installation was successful and training of local staff was completed. Local staff are deemed competent for the on-going maintenance of the plant

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BioContainer 20' BioMax

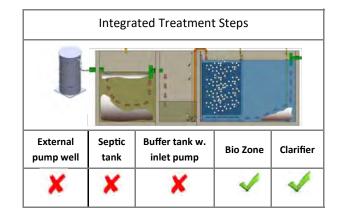


Configuration

Product Description

The "20' BioMax" version requires an externally installed buffer tank and septic tank. The system is hence regarded a semi-transportable system, allowing parts of the cleaning chain to be transported to alternative locations.

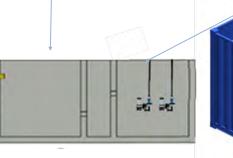
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Treatment Concept

Septic Tank: The septic tank is used as pre-treatment for settling the suspended solids and storage of the sludge. The septic tank is not part of the 20 ' BioMax and can be provided locally underground or inside a container which can be provided by BioKube.

Buffer Tank: The raw sewage water is transferred from the External Buffer Tank to the BioMax treatment Zone. The Buffer tank is not part of the BioMax unit and can be provided locally or in a container which can be provided by BioKube.



Biological Zone: In the Biological Treatment Chamber microorganisms perform degradation of the organic load of the in-coming wastewater to the required levels. The treatment chambers consist of submerged aerated filters where wastewater flows through. The air is distributed by diffusers positioned underneath the bio-filters.

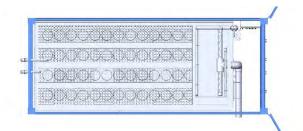
Clarifying Zone: The Clarifier Zone is allowing for the continuous removal of solids (bio-sludge) by sedimentation. From the clarifying zones the bio-sludge is recirculated frequently to the septic tank **Control Room:** The control panel, blowers and secondary treatment equipment are secured inside the control room part of the BioContainer.

BioContainer 20' BioMax

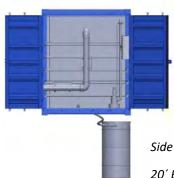
ΒΙΟΚUBEΩ

Key specifications

| Dimension | Value | | | | |
|--------------------------------------|-----------------|--|--|--|--|
| Height (mm) | 2,900 | | | | |
| Width (mm) | 2,440 | | | | |
| Length (mm) | 6,060 | | | | |
| Weight (kg) | 4,800 | | | | |
| Weight with water (kg) | 19,000 | | | | |
| Power consumption (kw/day) | 39.4 | | | | |
| Inlet Pipe connection | Flex pump hose | | | | |
| Outlet height (mm) | 1,000 | | | | |
| Inlet/oulet pipe diametre (mm) | 110/110 | | | | |
| Tank Material, inner tank | PP, UV-stabl. | | | | |
| Air piping material | Stainless Steel | | | | |
| Outlet & sludge return pipe (mm) | 110 | | | | |
| Power requirement | 3 Phase | | | | |
| Capacity* at effluent Class Normal** | 550PE | | | | |
| Capacity* at effluent Class High*** | 130 PE | | | | |



Top View of BioContainer 20' BioMax



Side View of BioContainer 20' BioMax

* 1 PE = 60g BOD, 12 g N-total, 2.5 g P-total, 150L/day
 ** Effluent Class Normal : BOD < 25 mg/liter
 *** Effluent Class High: BOD < 10 mg/liter, NH4 < 5 mg/liter, 50 % TN reduction.

Reference Case: Newcastle Airport, England



BioContainer 20'BioMax in operation

BioContainer 40' BioMax

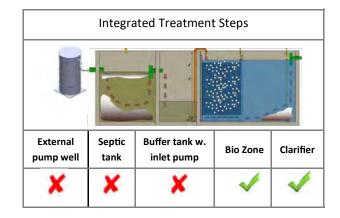


Configuration

Product Description

The "40' BioMax" version requiires an externally installed buffer tank and septic tank. The system is hence regarded a semi-transportable system, allowing parts of the cleaning chain to be transported to alternative locations.

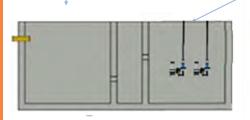
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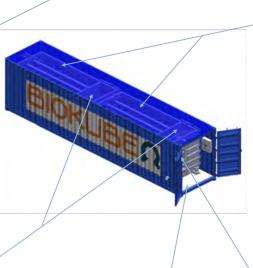


Treatment Concept

Septic Tank: The septic tank is used as pre-treatment for settling the suspended solids and storage of the sludge. The septic tank is not part of the 40 ' BioMax and can be provided locally underground or inside a container which can be provided by BioKube.

Buffer Tank: The raw sewage water is transferred from the External Buffer Tank to the BioMax treatment Zone. The Buffer tank is not part of the BioMax unit and can be provided locally or in a container which can be provided by BioKube.





Biological Zone: In the Biological Treatment Chamber microorganisms perform degradation of the organic load of the in-coming wastewater to the required levels. The treatment chambers consist of submerged aerated filters where wastewater flows through. The air is distributed by diffusers positioned underneath the bio-filters.

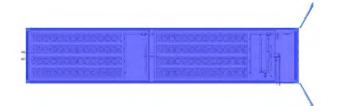
Clarifying Zone: The Clarifier Zone is allowing for the continuous removal of solids (bio-sludge) by sedimentation. From the clarifying zones the bio-sludge is recirculated frequently to the septic tank **Control Room:** The control panel, blowers and secondary treatment equipment are secured inside the control room part of the BioContainer.

BioContainer 40' BioMax

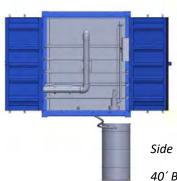
ΒΙΟΚUBEΩ

Key specifications

| Dimension | Value | | | | |
|--------------------------------------|-----------------|--|--|--|--|
| Height (mm) | 2,900 | | | | |
| Width (mm) | 2,440 | | | | |
| Length (mm) | 12,190 | | | | |
| Weight (kg) | 9,500 | | | | |
| Weight with water (kg) | 58,000 | | | | |
| Power consumption (kw/day) | 57.7 | | | | |
| Inlet Pipe connection | Flex pump hose | | | | |
| Outlet height (mm) | 1,000 | | | | |
| Inlet/oulet pipe diametre (mm) | 110/110 | | | | |
| Tank Material, inner tank | PP, UV-stabl. | | | | |
| Air piping material | Stainless Steel | | | | |
| Outlet & sludge return pipe (mm) | 110 | | | | |
| Power requirement | 3 Phase | | | | |
| Capacity* at effluent Class Normal** | 1,100 PE | | | | |
| Capacity* at effluent Class High*** | 260 PE | | | | |



Top View of BioContainer 40' BioMax



Side View of BioContainer 40' BioMax

* 1 PE = 60g BOD, 12 g N-total, 2.5 g P-total, 150L/day
 ** Effluent Class Normal : BOD < 25 mg/liter
 *** Effluent Class High: BOD < 10 mg/liter, NH4 < 5 mg/liter, 50 % TN reduction.

Reference Case: Labour Camp, Carillion Alawi, Oman



Labour Camp, Carillion Alawi LLC, in Oman. There are 2 x BioContainer BioMax 40' near a beach resort.

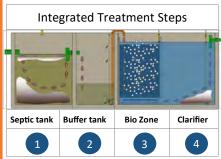
FACT SHEET

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Product Description

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BioContainer - Guinea, Africa

BioContainer, **BioMax**

BioContainer, Combi EB





BioContainer, Combi IB



| | BioContainer Specifications | | | | | |
|----------------------------------|-----------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | 20' BioMax | 40' BioMax | 20' Combi EB | 40' Combi EB | 20' Combi IB | 40' Combi IB |
| Height (mm) | 2,900 | 2,900 | 2,900 | 2,900 | 2,900 | 2,900 |
| Width (mm) | 2,440 | 2,440 | 2,440 | 2,440 | 2,440 | 2,440 |
| Length (mm) | 6,060 | 12,190 | 6,060 | 12,190 | 6,060 | 12,190 |
| Weight (kg) | 4,800 | 9,500 | 4,800 | 9,500 | 4,800 | 9,500 |
| Weight with water (kg) | 19,000 | 58,000 | 19,000 | 58,000 | 19,000 | 58,000 |
| Power consumption (kw/day) | 39.4 | 57.7 | 39.4 | 57.7 | 39.4 | 57.7 |
| Inlet Pipe connection | Flex pump hose | Flex pump hose | Flex pump hose | Flex pump hose | Flex pump hose | Flex pump hose |
| Outlet height (mm) | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 |
| Inlet/outlet pipe diameter(mm) | 110/110 | 110/110 | 110/110 | 110/110 | 110/110 | 110/110 |
| Tank Material, inner tank | PP, UV-stabl. | PP, UV-stabl. | PP, UV-stabl. | PP, UV-stabl. | PP, UV-stabl. | PP, UV-stabl. |
| Air piping material | Stainless Steel | Stainless Steel | Stainless Steel | Stainless Steel | Stainless Steel | Stainless Steel |
| Outlet & sludge return pipe (mm) | 110 | 110 | 110 | 110 | 110 | 110 |
| Power requirement | 3- Phase | 3- Phase | 3- Phase | 3- Phase | 3- Phase | 3- Phase |

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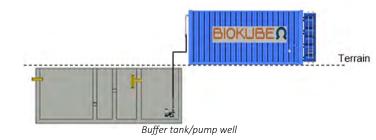
Installation Principles

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BioContainer

BioContainer, BioMax

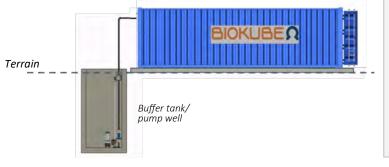
External buffer tank & septic tank



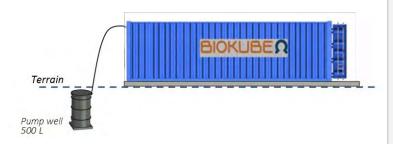
Settling tank

BioContainer, Combi EB

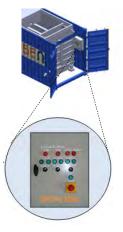
External buffer tank



BioContainer, Combi IB



Control of electrical components



All electrical component in the BioContainer system; e.g. blowers, pumps, UV units , are integrated and connected to the integrated control box, from where the power is distributed and controlled.

The plant is normally powered with 400 Volt, 3 phase power supply.



Inlet Principles

The BioContainer units are delivered with a 10 metre flexible inlet pump hose allowing trouble free initial transfer of the waste water to the system.

Depended on system type, the inlet pumps can be placed on e.g. guidelines or in a specially constructed transfer pump well.

The BioContainer "**BioMax**" must be placed on a load bearing horizontally leveled surface with a maximum variation of +/- 1 cm per 4 mtrs.

The surface must consist of either stable compressed gravel or 200 mm cast concrete slab built on stable soil. The "BioMax" version requires an externally installed buffer tank and septic tank. The system is hence regarded a semi-transportable system, allowing parts of the cleaning chain to be transported to alternative locations.

The BioContainer "Combi EB", must be placed on a load bearing horizontally leveled surface with a maximum variation of +/- 1 cm per 4 mtrs.

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The surface must consist of either stable compressed gravel or 200 mm cast concrete slab built on stable soil. The "Combi, IB" version has all cleaning steps integrated and is hence regarded a fully transportable system.

ΒΙΟΚUBEΩ

How much water can a BioContainer system treat per day Each person using 150 l/day or 200 l/day or 300 l/day

| BioKube system (all models - typical cleaning demands) | 150 l/day/PE | 200 l/day/PE | 300 l/day/PE |
|---|--------------|--------------|--------------|
| 20 ft Combi IB Effluent class normal (BOD<25) | 36 m3/day | 48 m3/day | 72 m3/day |
| 20 ft Combi IB Effluent class high (BOD < 10, NH4<5, 50 % TOT N reduction) | 13 m3/day | 17 m3/day | 26 m3/day |
| 40 ft Combi IB Effluent class normal (BOD<25) | 72 m3/day | 96 m3/day | 144 m3/day |
| 40 ft Combi IB Effluent class high (BOD < 10, NH4<5, 50 % TOT N reduction) | 26 m3/day | 34 m3/day | 52 m3/day |
| | | | |
| 20 ft Combi EB Effluent class normal (BOD<25) | 42 m3/day | 56 m3/day | 84 m3/day |
| 20 ft Combi EB Effluent class high (BOD < 10, NH4<5, 50 % TOT N reduction) | 15 m3/day | 20 m3/day | 30 m3/day |
| 40 ft Combi EB Effluent class normal (BOD<25) | 84 m3/day | 112 m3/day | 168 m3/day |
| 40 ft Combi EB Effluent class high (BOD < 10, NH4<5, 50 % TOT N reduction) | 30 m3/day | 40 m3/day | 60 m3/day |
| | | | |
| 20 ft Combi BioMax Effluent class normal (BOD<25) | 83 m3/day | 110 m3/day | 166 m3/day |
| 20 ft Combi BioMax Effluent class high (BOD < 10, NH4<5, 50 % TOT N reduc.) | 20 m3/day | 27 m3/day | 40 m3/day |
| 40 ft Combi BioMax Effluent class normal (BOD<25) | 165 m3/day | 220 m3/day | 330 m3/day |
| 40 ft Combi BioMax Effluent class hign (BOD < 10, NH4<5, 50 % TOT N reduc) | 40 m3/day | 54 m3/day | 80 m3/day |

Selection of Companies who have choosen BioContainer Systems

