



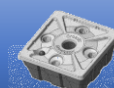
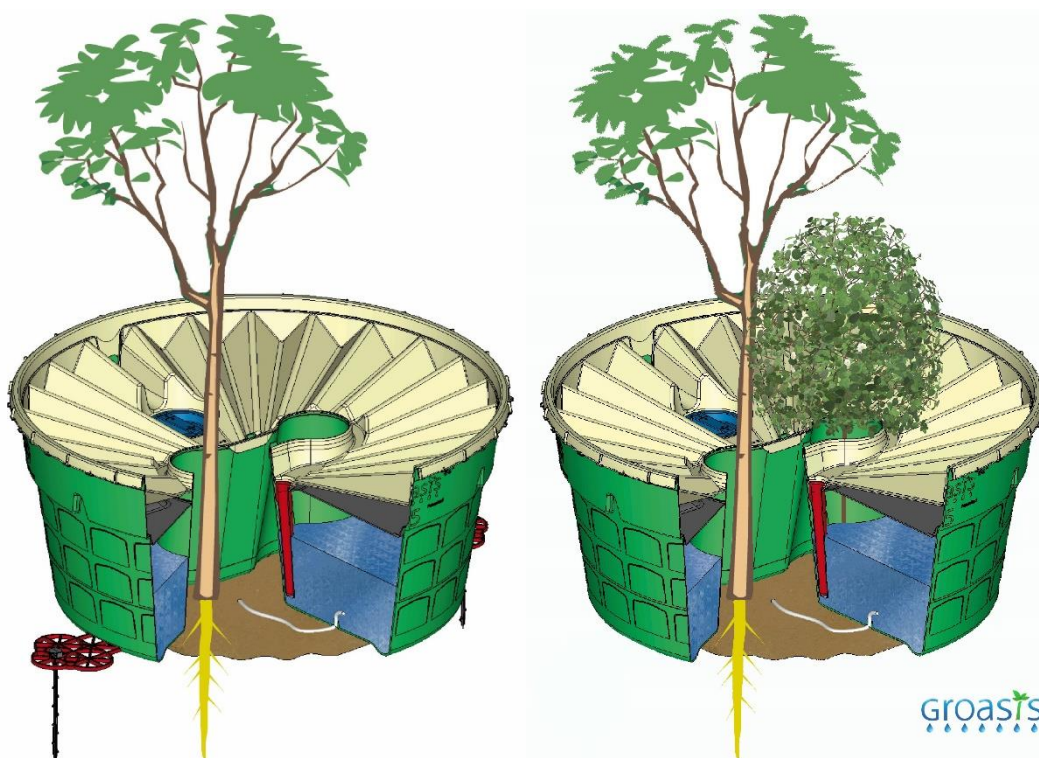
**Data Sheet Groasis 10 times re-usable Waterboxx<sup>®</sup> plant cocoon Model “Twinboxx”**  
**Part of the Groasis Ecological Water Saving Technology**  
[Check the video how it works here](#)

The Waterboxx<sup>®</sup> plant cocoon is a planting technology that enables to plant a tree alone, or in combination with shrubs, flowers or vegetables. You can use the Waterboxx<sup>®</sup> plant cocoon in hot, dry or eroded areas. One year after planting the tree grows independently and does not need irrigation. The Waterboxx<sup>®</sup> plant cocoon is made of polypropylene and can be reused during 10 years. Each year you can plant a new tree with it. The box gives the water with a wick that functions as a capillary separation between the water and the soil. This way the quantity of given water depends on the humidity of the soil. Together with the box you can use the biodegradable or polypropylene [Growsafe plant protector](#).

You can use the Waterboxx<sup>®</sup> for 3 different purposes:

- 1 Productive tree in the middle to plant orchards, e.g. vines, olives, etc.
- 1 Productive tree in the middle of the box with one vegetable, one bush or one wild flower.
- 2 Trees and/or plants for ecosystem restoration purposes – this offers the opportunity to plant one tree and 1 bush and/or wildflowers in order to create colonizing micro-ecosystems of pioneer plants to reforest the area. With only 250 Waterboxxes the client can plant 500 pioneer plants per hectare, saving enormous amounts of costs compared to traditional methods.

**The Waterboxx<sup>®</sup> plant cocoon is by far the cheapest method to plant without irrigation in hot, dry or eroded areas. The fact that you can reuse the box during 10 years, planting each year a new tree, makes the cost per tree incredibly low.**





Groasis Waterboxx <sup>®</sup> plant cocoon	Model "Twinboxx" for 2 trees and/or bushes and/or vegetables
Standard parts	Box - lid – isolation lid - cap – 2 siphons - wick
Color of box	Green
Color of lid	Beige
Color of caps/siphons	Blue
Color of isolation lid	Black
Weight	1,400 grams (49.4 oz)
Material	Virgin polypropylene
Additives	UV protection – anti-oxidants
Quality standard	UV protection according to standards BASF and CIBA
Temperature resistance	Between - 40°C to + 80°C (-40°F to +176°F)
Wick	Nylon
Diameter x height	48,5 x 23 cm (19.25 x 9")
Content	15 liters (3.75 gallons)
Complete sets per pallet	150 for air freight / 250 or 300 for sea freight
Complete sets 20Ft container	3,000 pieces on 12 pallets of L 100 x W 120 cm (39.3 x 47,2") x 250
Complete sets 40Ft HC container	7,200 pieces on 24 pallets of L 100 x W 120 cm (39.3 x 47,2") x 300
Water gift per day	Variable - between 700 to 18cc - on average 50 cc (50 millilitres)
Water gift influence	Depending on hygroscopic characteristics of soil
Lid characteristic	Surface with thousands of microscopic points on it causes low adhesion to water
Refill	Opening with cap in cover allows a quick refill if necessary
Expected lifetime wick	One year
Expected lifetime Waterboxx <sup>®</sup>	10 Times re-usable: depending on temperatures and UV: 5 to 15 years
Evaporation of water through lid	Zero
Development of algae in water	Zero

Website	<a href="http://www.groasis.com">www.groasis.com</a>
YouTube channel tree planting	<a href="https://www.youtube.com/user/Groasiswaterboxx">https://www.youtube.com/user/Groasiswaterboxx</a>
You Tube channel vegetables planting	<a href="https://www.youtube.com/user/Groasisvegetables">https://www.youtube.com/user/Groasisvegetables</a>

Planting manual  
 الزراعة دليل  
 रोपण के मैन्युअल  
 種植手冊  
 Mwongozo wa kupanda  
 Dikim el kitabi  
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Download the planting manual in our Groasis Waterboxx<sup>®</sup> app in Google or Apple store

