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Overview



Torpedopot™

1.1 Torpedopot™ Introduction

Torpedopot™ produces self-watering planters and vertical growing solutions for personal use and large-scale farming operations. Torpedopot's intuitive design allows plants to yield more flowers, fruits, and vegetables per square foot than any traditional or hydroponic gardening system available on the market. Initial setup time for Torpedopot™ takes less than an hour and even less time is needed throughout the season to manage your vertical garden. Once the system is set up, it is controlled by simply turning a knob.

Torpedopots™ revolutionary vertical growing technique allows gardeners and large-scale farmers to increase their yields in excess of 500% when compared with traditional farming techniques and hydroponic growing methods. In order for Torpedopot™ to maximize yields, all users are required to do is add dirt, seeds or seedlings, turn on the knob and walk away. Torpedopot™ possesses the ability to allow its users to grow thousands of fruits, vegetables, herbs, nuts, and grains all by twisting a knob and has the ability to grow more than 3.5 million plants inside of 1.33 acres of land. The system also allows farmers to significantly increase their yields while lowering their variable farming costs.

Significant and long-lasting increases in yield obtained at a lower cost less costs are created due to:

- Creating and intuitive process where plant water usage and nutrient absorption rates are incorporated into the design. Torpedopot™ intuitively knows what you want to grow and when you want to grow it.
- An easy to maintain controlled environment that stems from the materials Torpedopot™ is made with as well as the functionality of its multiple pieces.
- High level of efficiency of its water and nutrient distribution systems. Once your planter has created an optimum environment for itself, the pressure in the planter automatically adjusts to maintain equilibrium.
- What this means for users is less time, less stress, less work, a reduction in variable costs for tools and a whole lot of free time to watch your plants yield more with less effort.

Torpedopots™ slogan is "Feeding the World" which we are truly committed to. By

providing the means for those who are without nutritious food to have access to it at a lower cost, we are confident that through the widespread adoption of our technology, significantly more of the world's malnourished population will gain access to nutritious foods and increased levels of safe drinking water. Similarly, through the distribution of a product that has the potential to feed so many of the earth's population at a low cost, early adopters will generate an economic

benefit to the overall economy throughout the entire agricultural value chain, especially economies that rely primarily on agricultural for success.

Figure 1 (10ft high /52 Eggplants)



1.2 Torpedopot™ Main Functional Parts

Torpedopot™ has two primary parts that work in tandem with one another to generate optimum growing results, the torpedo and the pot. Torpedopot™ also utilizes several smaller pieces whose vital functionality allows the torpedo and the pot to work synergistically with one another to create an optimal growing environment for your plants and generate substantial increases in yields.

Pot

- The Pot provides a large and well-drained horizontal growing area and provides structural support for the Torpedo "vertical growing area".
- Each Pot has an inline flow system for dispensing water to the base planter and to the Torpedo. The flow control dispenses water to plants roots and leaves. Very little water is wasted. Nearly 100 percent of the water utilized helps to create a biosphere around the plant and its root system. This allows the plant to flourish in friendly bacteria and not activate competing organisms.
- The Pot utilizes an internal inline plumbing system that automatically equilibrates itself to optimize water pressure. It also prevents uneven watering and surface evaporation.
- The Pot provides a drinking troth for every plant, and equal access to nutritious soil.
- The Pot is made from high-grade plastic and a rubber additive that eliminates brittleness and enhances flexibility.
- The Pot has a weather resistant bleed free color, which is UV resistant.



- The Pot comes in a variety of sizes as depicted below.



Torpedo

- The Torpedo is a cylinder planter that provides an extended growing area for vertical planting.
- The Torpedo easily attaches to the bottom of the Pot.
- The Torpedo distributes water through high-pressure water lines. The tubing meets EPA and FDA drinking standards. The dimensions of the tubing changes in size for each class of planters. Each planter distributes water and nutrients based upon the Pots capacity.
- The Torpedo contains multiple perch holes for placing seeds or seedlings. The spacing configuration is designed to promote significant increases in production. The perch holes have been designed to achieve optimal spacing such that sunlight and access to environmental conditions is equally shared.
- The Torpedo can be easily dissembled and transported to other locations outdoors or indoors.



Soak line

- The Soak Line connects to the high-pressure water lines. Its design promotes consistent distribution of water at optimal levels to the roots. Water dispensing takes place only when an ideal pressure limit is reached. Each class of planters has their own unique pressure release specifications.
- The Soak line is attached to the inline water system. It is used for dispensing water and nutrients. Water and nutrients that are released in the Torpedopot™ mimic how water is delivered when it rains, with one exception. Each plant believes that they exist on a horizontal plane. As water travels down the torpedopot it promotes root and plant growth.
- The Soak Line delivers nutrients by utilizing the water. Water is used as a delivery conduit for supplemental nutrition. The natural properties of the soil are used to distribute nutrients to plant roots. Nutrients are carried to the throughout the Vertical Garden Planter - Torpedopot™ and released in a way that does not disrupt the soil matrix.
- The Soak Line allows water to rinse the plant's roots so that they can quickly absorb water without drowning. As the water moves down the Vertical Torpedo, it forces the roots to push downward to reach vast amounts of water in the pores of the soil, thus promoting plant growth.
- The rates at which water penetrates and is absorbed by the soil depend mainly on soil texture.

- The Soak Line keeps the soil at a constant optimal moisture level and allows for extremely high levels of seed germination. For seeded species, germination generally takes place if the soil moisture content is one and a half times, above what a typical mature plant requires.

Micro-Hose

- All distribution tubing in Torpedopot™ is specially formulated to resist degradation from mildew, algae, fungi, and biofilm that can accumulate on the inside or outside of tubing in filling and processing applications. The antimicrobial feature is fully compounded into the tubing to protect both the inner and outer surfaces from degradation, foul odors, microorganisms, and discoloration. It is resistant to environmental stress cracking.
- Allows water and nutrition to release itself into the planter gently and be transported up the height of the Torpedo
- Loosely attaches to the inner wall of the Torpedopot™
- Allows for optimal growth to take place vertically
- Creates an ideal environment where plants can thrive.



In addition to its main parts, Torpedopot™ also has a control valve that allows its user to control the flow of water and nutrients moving into and out of the Torpedopot™. The Pot can be equipped with a rust and corrosion resistant brass connector that allows the Pot to connect to a hose or a manifold. You can connect as many Torpedopots™ as you want together so that you can grow your garden as large as you wish.

1.3 Impressive Yields

Torpedopot™ has proven its ability to produce higher yields, at a faster rate, while taking up less time and costing less money. When looking at the yields Torpedopot™ has generated inside of only a single pot, the results are staggering.

under common gardening conditions one planter has the ability to produce:

- 1,000 - Banana Peppers
- 52 - Eggplants 200 - Hungarian peppers
- 75 - Cucumbers
- 20 - Squash, Zucchini,
- 1,000 - Cherry Tomatoes, Big-boy, Plum
- Thousands of Herbs - Parsley, Fennel, Oregano
- Mint: Chocolate, Apple, Peppermint, Spearmint,
- Watermelon, Cantaloupe, Honeydew
- Kiwi, Strawberries, Blueberries,
- Small Trees: Apple, Pear, Lemon, Plum, Peach Flowers:
Portulaca, Nasturtium, Petunias, Lettuce, Collards, Kale,
Cabbage, Peas, Potatoes

Under optimal growing conditions, you can expect to provide enough supplemented nutrition to feed a family for a year.

Case Study: Cabbage has long been grown and consumed globally for centuries and used as a staple vegetable in many dishes. Traditional gardening methods indicate that this spherical vegetable should be grown 30-60cm apart from each other in order to maximize yields.

In order to grow 15 cabbages a ground space that is 7,920 square centimeters is required. TorpedoPot can easily fit all of these cabbages into one single pot and comfortably place 6 inside of this growing area increasing yields immensely! Imagine, instead of growing one cabbage you can grow an entire cabbage tree that supports 15 cabbages at a time utilizing the same ground space, the same amount of soil, little to no fertilizer and no manual watering! In addition, to the 500% plus



gains achievable by using Torpedopot™ plants are more resilient, appealing and grow back quicker, allowing for additional yields.

All the while, this has been achieved with:

- Less Soil
- Less Water
- Less fertilization
- less work tilling the ground
- Minimal Time and Energy

Below, a scenario for growing cabbage on a 1-acre plot of land in terms of yields over a 5-year period is shown.

Cabbage Scenario

TorpedoPot Cabbage Production 1 Acre Traditional Farming												
Year	Soil	Water	Nutrients	Tools	TVC	Hours Required	Cabbages Yielded	Weight	Revenues	Fixed Cost	Total Cost	Profit
Year 1	\$1,500	\$1,365	\$1,000	\$1,000	\$4,865	1,040	7,200	33 T	\$9,806	\$459	\$5,324	\$4,482
Year 2	\$1,500	\$1,365	\$1,000	\$1,000	\$4,865	1,040	7,200	33 T	\$9,806	-	\$4,865	\$4,941
Year 3	\$1,500	\$1,365	\$1,000	\$1,000	\$4,865	1,040	7,200	33 T	\$9,806	-	\$4,865	\$4,941
Year 4	\$1,500	\$1,365	\$1,000	\$1,000	\$4,865	1,040	7,200	33 T	\$9,806	-	\$4,865	\$4,941
Year 5	\$1,500	\$1,365	\$1,000	\$1,000	\$4,865	1,040	7,200	33 T	\$9,806	-	\$4,865	\$4,941
Total:	\$7,500	\$6,825	\$5,000	\$5,000	\$24,325	5,200	36,000	163 T	\$49,032	-	\$24,325	\$24,248
TorpedoPot Cabbage Production 1 Acre With TorpedoPot												
Year	Soil	Water	Nutrients	Tools	TVC	Hours Required	Cabbages Yielded	Weight	Revenues	Fixed Cost	Total Cost	Profit
Year 1	\$2,000	\$683	\$0	\$100	\$2,783	200	43,200	275 T	\$82,374	\$32,143	\$34,925	\$47,448
Year 2	\$0	\$683	\$0	\$100	\$783	200	43,200	275 T	\$82,374	\$32,143	\$32,925	\$49,448
Year 3	\$0	\$683	\$0	\$100	\$783	200	43,200	275 T	\$82,374	\$32,143	\$32,925	\$49,448
Year 4	\$0	\$683	\$0	\$100	\$783	200	43,200	275 T	\$82,374	\$32,143	\$32,925	\$49,448
Year 5	\$0	\$683	\$0	\$100	\$783	200	43,200	275 T	\$82,374	\$32,143	\$32,925	\$49,448
Total:	\$2,000	\$3,413	\$0	\$500	\$5,913	1,000	216,000	1,373 T	\$411,869	\$160,714	\$166,627	\$245,242
Assumptions:												
- Cabbages weigh 908 grams on average and can be harvested every 70 days with normal farming techniques and 50 with TorpedoPot.												
- TorpedoPot only requires half as much water as traditional farming methods (conservative estimate).												
- TorpedoPot requires significantly less nutrients and tools than does traditional farming methods.												
- Fixed Cost for TorpedoPot was arrived at by taking the amount of TorpedoPot's that fit inside of an acre divided by two, to allow for a comfortable level of spacing.												
- This amounts to 2,500 TorpedoPots.												

Conclusion:

In the same amount of space Torpedopot™ has the ability to:

- Yield in excess of 500% more plants per acre than traditional farming techniques
- Substantially increase revenues
- Increase profit margins
- Drastically reduce the time and energy needed to produce more crops

- Increase clean usable water supplies for communities

These results are estimated to be wide-reaching and apply to a wide array of cash crops such as tea, coffee, and cotton as well as a wide array of vegetables, fruits, roots, and herbs. With Torpedopot™ technology farmers truly have an advantage that is head and shoulders over their competition and gives them the opportunity to accelerate their operations into growing powerhouse that generate significantly more profit in less time with less resources. Additionally, countries who rely primarily on the agricultural sector to generate income can improve their trade balance and even increase GDP per capita and standards of living for their citizens. Most importantly, Torpedopot™ will allow more of the overall population to gain access to adequate amounts of healthy food at a lower cost and have access to larger amounts of clean usable water.

1.7 Conclusion

It had been shown in detail how Torpedopot™ will change the face of agriculture and greatly benefit its early adopters. Further, through financial analysis it can be shown that the company that leases the pots or farmers will greatly benefit, but all of these parties will reap massive benefits through adoption of Torpedopot™ technology.

Torpedopot™ is expected to create a host of benefits to those who are involved in its early adoption and also generate immense positive externalities surrounding areas that adopt it. For instance, as farmers adopt Torpedopot™, more water per acre will immediately be available to the surrounding populations and if basic economic principles hold, will ultimately lower the cost of obtaining clean usable water as well.

Additionally, with more food made available at a lower cost over time, farmers will benefit immensely in a multitude of different areas. First, by lowering costs over time, net profit margins will rise. Secondly, having the technology to produce more food per square foot and grow on lands that were previously non arable, yields and gross revenues have the potential to increase by 500%. As farmers begin to make more money, they will undoubtedly buy more goods and services and local businesses will prosper.

Further, with an increase in the food supply in the country two very large and lasting effects will occur. With more food made available at a lower cost, Africa will much more easily be able to meet the demands of its ever-growing population at a lower cost. With a 500% increase in the amount of food available, especially in the case of major cash crops, there will undoubtedly be an increase in available jobs. As total crop production ramps up, there will be an increased need for hundreds of workers as new farmers enter the space and require workers to harvest, and transport their crops and service their pots.

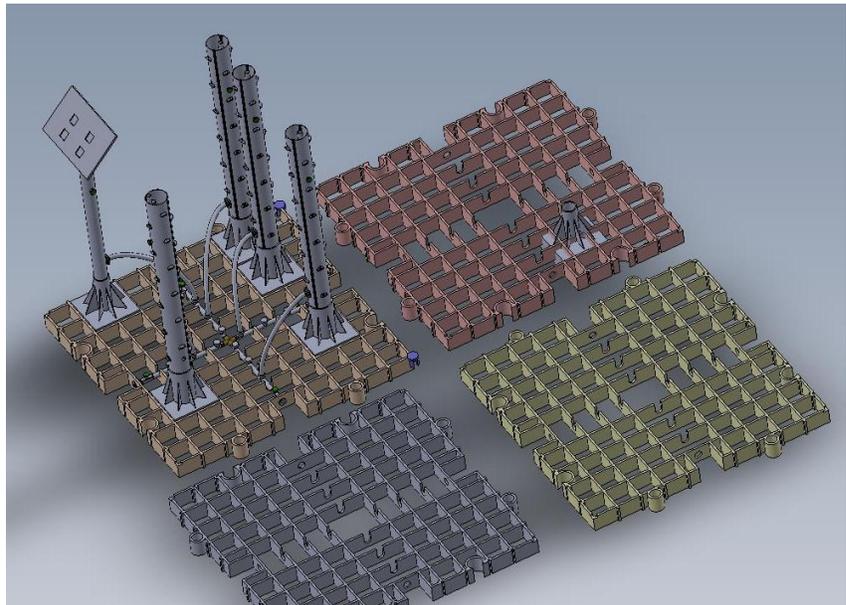
Partner Status:

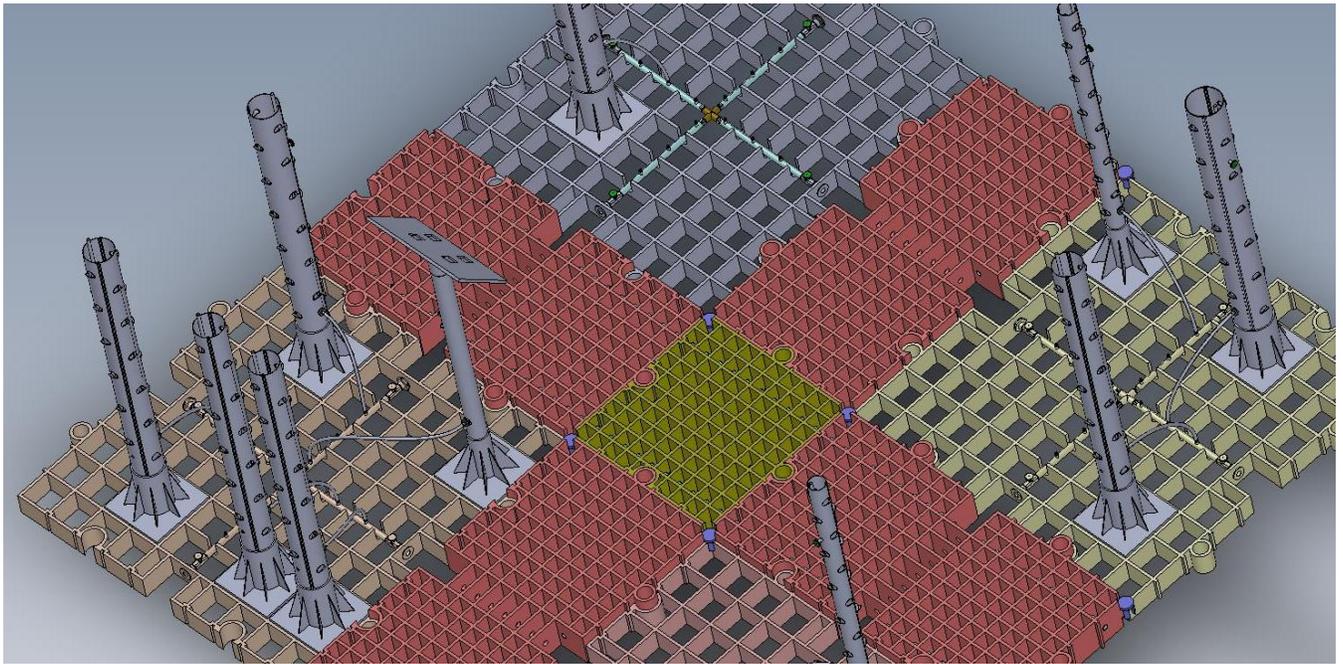
Financing companies, who make purchases in advance for the 2019 year, automatically have Partner Status for the following year. These companies will have preferred status when ordering the Vertical Gardening Grid System.

Benefits of using the Vertical grid System:

- Feed large amounts of people in a short period.
- Respond to disasters with a long-term cost effective solution.
- Provide a stable, long-term gardening solution for growing plants, fruits and vegetables while feeding millions of people.
- Quickly build the world largest indoor/outdoor garden
- Requires little oversight
- The initial setup cost and everyday maintenance is far lower than other systems.
- Use the least amount of resources (water, fertilizers, equipment, monitoring, and personnel) than similar applications.

With Partner Status privileges, your company is guaranteed to ship first.





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