

THE Medical Planter



THE Bucket Company

PRODUCT CATALOG



Well known for its easy to use and Expandable/Modular design, this planter truly has a Universal appeal. The Ez-Pz Planter™ works with all growing mediums and different applications, while being completely adaptable to your particular preference.

THE Medical Planter

The Medical Planter™ is the newest addition to The Bucket Company™ family. It's the first planter ever created with Antimicrobial Properties (Patent Pending), with the added benefit of Medical Grade FDA & EPA Approved plastics, this bucket eliminates 99.99% of Black/Grey Mold, Algae, & E-Coli.

The added benefit of Medical Grade FDA and EPA Approved plastics make it Anti- Mold and Anti-Algae. A must have in a medical growing facility or growing for personal use. As the Health Department issues the permits, we feel that all consumable products should be ridden of all harmful bacteria & pathogens to pass strict inspections.

MADE WITH



APPROVED PLASTICS



A People's People Company.

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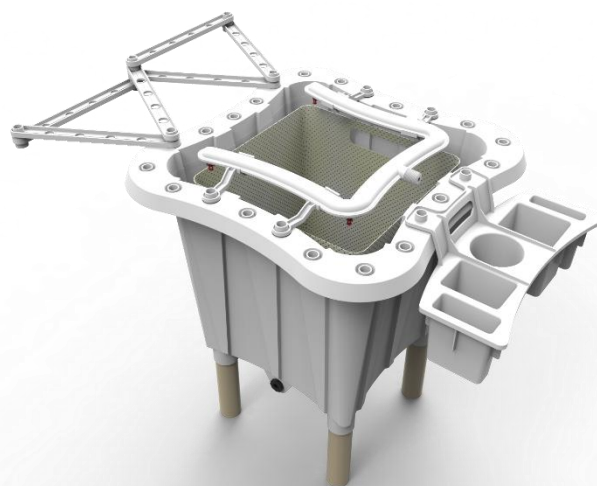
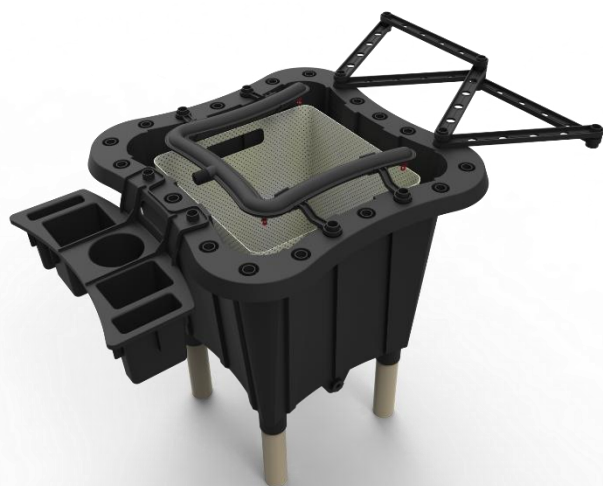
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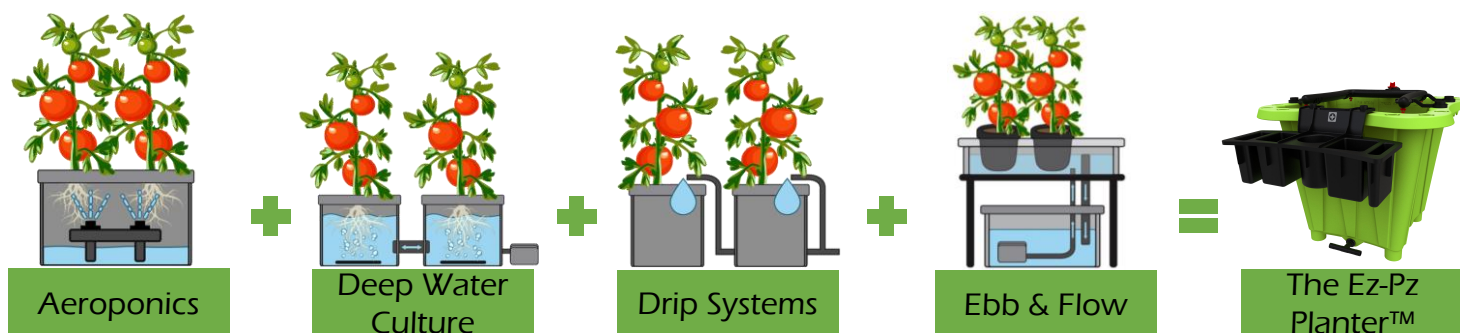
The Ez-Pz Planter™ Family of Products.



Simply stated, the Ez-Pz Planter™ is a modern day solution for today's rapidly growing agriculture industry. With innovations in every aspect of the product, it truly is a revolutionary planter.

The Planter was designed by growers for growers, the main selling point of The Ez-Pz Planter™ is that it is a Universal System that can be used in countless applications from small grow tents to large commercial grow ops. They are 100% Expandable, whether you need 1 or 1,000, the Ez-Pz Planter™ Growing System is for you!

UNIVERSAL SYSTEM WORKS WITH ALL GROWING STYLES.



COCO COIR



SOIL

Soil Based Mediums (Soil, Coco, Etc.)

Our unique system can be set for "Top Feed Drain to Waste" Style growing. You can use PVC to set up a closed direct drain system, a gutter system to have a more open fluid drain system, or you can put them directly on a flood table. Set your pumps on a timer or hand feed on your schedule.



ROCKWOOL



CLAY PEBBLES



GROWSTONE

Hydroponic Growing (Lava Rocks, Vermiculite, Etc.)

You can connect PVC to our drainage system and set it to recirculate back to a reservoir leaving your pumps running without a timer and having constant water flow in a close loop traditional hydro-style growing system.

The Ez-Pz Planter™.

FEATURES AND BENEFITS

Time Saving Worker-Stations



Maximize your efficiency and minimize lost and misplaced tools.

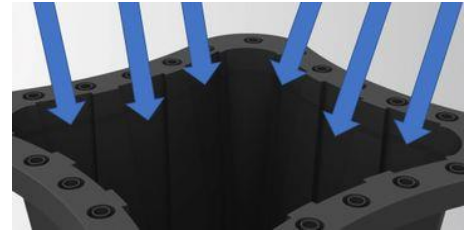
Our **Ez-Pz Workerstation™** organizes your scissors, pruners, ties, spreaders, and also features a cup holder.

3" "V" Bottom Design



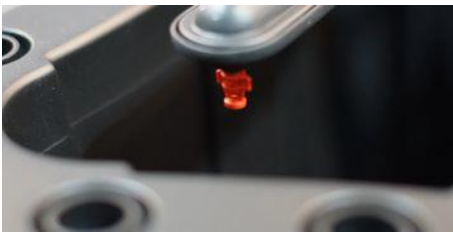
Let gravity and our "V" Bottom design do all the work and keep your plants properly drained. Controlling your humidity levels is one of the most important parts of growing! This design helps save time and electricity. Control humidity!

Patent Pending Air Channels



Our Patent Pending Air Channels create a steady flow of oxygen to your roots, keeping them healthy and helping you to eliminate root rot.

360 degrees of A-W-E-S-O-M-E



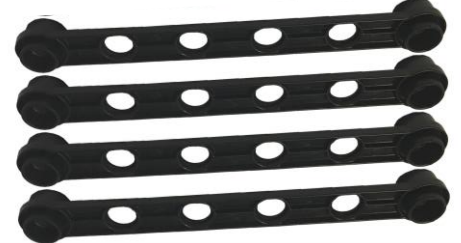
Our unique Feeding Manifold comes with four optional 360 Degree Sprayers. The design completely covers your medium to ensure that your nutrients and water are spread evenly. *Use it with or without sprayers, its up to you!*

The Ez-Pz Feeder System™



This feeder system truly is universal, works with nearly all existing piping and all fittings can be easily purchased at most hardware stores. Individual Shut-Off Valve allows you to decide when to feed a specific plant.

Fully Customizable Spreaders



Our **Ez-Pz Branch Spreader Arms™** snap onto the outside of your planter keeping stakes out of your roots and eliminating cross contamination. You have the freedom of setting them up anywhere on the planter in any shape or design.

Available in 1/2", 5/8" & 3/4"ID

NO TOOLS REQUIRED!



Designed to make your set up and take down more efficient. Everything snaps on and off easily for maximum production. Whether you are cleaning your irrigation system or adjusting your spreaders you won't be fumbling around looking for tools.

Add Oxygen to your roots!



The Ez-Pz Planter™ is designed to drain your medium quickly and effectively eliminating root rot. The Screen Pot/insert does not retain water/nutrients and creates oxygen bubbles. The closed drain system reduces humidity in your room.

The Ez-Pz Planter™.

AS SEEN ON

MODERN GROWING
MAXIMUM YIELD

hydrolife

PROFESSIONAL
MARIJUANA
GROWER

CANNABIS
BUSINESS TIMES 

Marijuana
Business
MJBizCon

lift

CANNA  **CON**

INDO EXPO
THE PREMIER CANNABIS TRADE SHOW 

The Ez-Pz Planter™.

BUY IT BY THE KIT OR A-LA-CARTE

Whether you need to build out a 60,000 sq. ft greenhouse or you are trying to fill a grow tent in your backyard we've got you covered. There are many ways you can buy The 10 Gallon Ez-Pz Planter™ or The 10 Gallon Medical Planter™.



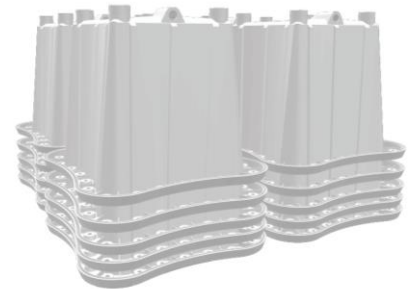
INDIVIDUALLY*

*Available in Store Only



10 PACK

*Includes 10 Screen Inserts
*Available in Store & Online



PALLET UP TO 152

*Available in Store & Online



TRELLIS GROWERS
KIT



STAKE GROWERS
KIT

*PALLET FITS UP TO 16 KITS

The Ez-Pz Planter™.

AVAILABLE COLORS AND SKU NUMBERS (10 GALLON PLANTERS ONLY)

The 10 Gallon Ez-Pz Planter™ is Available in a variety of colors and we can custom make any color you would like with a minimum order of 500. They are available individually in store only.

GORILLA BLACK



INDIVIDUAL PLANTER: EZ10GBP
10 PACK PLANTERS: EZ10GB10P

GREEN MONSTER



INDIVIDUAL PLANTER: EZ10GMP
10 PACK PLANTERS: EZ10GM10P

PURPLE HAZE



INDIVIDUAL PLANTER: EZ10PHP
10 PACK PLANTERS: EZ10PH10P

COOL GRAY



INDIVIDUAL PLANTER: EZ10CGP
10 PACK PLANTERS: EZ10CG10P

BLUE MOON



INDIVIDUAL PLANTER: EZ10BMP
10 PACK PLANTERS: EZ10BM10P

SAND



INDIVIDUAL PLANTER: EZ10W/WSP
10 PACK PLANTERS: EZ10W/WPS10P

PINK



INDIVIDUAL PLANTER: EZ10BCAPP
10 PACK PLANTERS: EZ10BCAP10P

BABY BLUE



INDIVIDUAL PLANTER: EZ10ASBBP
10 PACK PLANTERS: EZ10ASBB10P

The Ez-Pz Planter™.



TRELLIS GROWERS KIT

Our **Trellis Growers Kit** has all the features and benefits of the Ez-Pz Planter system that growers everywhere have come to love. All of our Trellis Growers Kits come with a 5 x 15 Ft net that gives you the option of choosing how you support the weight of your plant.



*Pump Sold Separately

The Ez-Pz Planter™.

TRELLIS GROWERS KIT BREAKDOWN.

4 Planter Trellis Growers Kit Include: 4- Ten Gallon Planters, 4- Irrigation Manifolds, 16-Irrigation Manifold Brackets, 4- Union Valves (1/2" x 1/2"), 40- 360 Deg Sprayers, Danner 530 GPH Inline Pump (Optional) 1- Worker Station, 4-Reusable Inserts/Screen Pots™, 4-Rubber Drain Grommets, 1- 25Ft Antimicrobial PVC Hose, 1- Trellis Net (5Ftx15Ft), 16- 1-1/4" PVC (Legs), 4- 1/2" MPT Tub Outlet Tee, 4- 1/2" MPT 90° Tub Fitting, 4- 1/2" FPT Barb Fitting.



The Ez-Pz Planter™.



STAKE GROWERS KIT

Our **Stake Growers Kit** has all the features and benefits of the Ez-Pz Planter system that growers everywhere have come to love with the added benefit of the **Branch Spreader Arms** which snap onto any part of your planter allowing you to avoid putting stakes into your medium, eliminating cross contamination and no more stabbing your roots.



*Pump Sold Separately

The Ez-Pz Planter™.

STAKE GROWERS KIT

4 Planter Stake Growers Kit Include: 4- Ten Gallon Planters, 32- Branch Spreader Arms, 4- Irrigation Manifolds, 16-Irrigation Manifold Brackets, 4- Union Valves (1/2" x 1/2"), 40- 360 Deg Sprayers, Danner 530 GPH Inline Pump (Optional), 1- Worker Station, 4-Reusable Inserts/Screen Pots™, 4-Rubber Drain Grommets, 1- 25Ft Antimicrobial PVC Hose, 16- 1-1/4" PVC (Legs), 4- 1/2" MPT Tub Outlet Tee, 4- 1/2" MPT 90° Tub Fitting, 4- 1/2" FPT Barb Fitting.



The Ez-Pz Planter™.

AVAILABLE COLORS AND SKU NUMBERS (4 PACK KITS)

GORILLA BLACK



STAKE GROWERS KIT: EZ10GB4BK
TRELLIS GROWERS KIT: EZ10GB4TGK

GREEN MONSTER



STAKE GROWERS KIT: EZ10GM4BK
TRELLIS GROWERS KIT: EZ10GM4TGK

PURPLE HAZE



STAKE GROWERS KIT: EZ10PH4BK
TRELLIS GROWERS KIT: EZ10PH4TGK

COOL GRAY



STAKE GROWERS KIT: EZ10CG4BK
TRELLIS GROWERS KIT: EZ10CG4TGK

BLUE MOON



STAKE GROWERS KIT: EZ10BM4BK
TRELLIS GROWERS KIT: EZ10BM4TGK

SAND



STAKE GROWERS KIT: EZ10WWPS4BK
TRELLIS GROWERS KIT: EZ10WWPS4TGK

PINK



STAKE GROWERS KIT: EZ10BCAP4BK
TRELLIS GROWERS KIT: EZ10BCAP4TGK

BABY BLUE



STAKE GROWERS KIT: EZ10ASBB4BK
TRELLIS GROWERS KIT: EZ10ASBB4TGK

The Ez-Pz Planter™.

THE BUCKET COMPANY CARES

The Bucket Company™ donates a percentage of the profits from our Limited Edition Colors to their respective foundations. We are a family owned company who has always believed in helping make a difference for others.



The Ez-Pz Planter™.

BUY IT BY THE KIT OR A-LA-CARTE

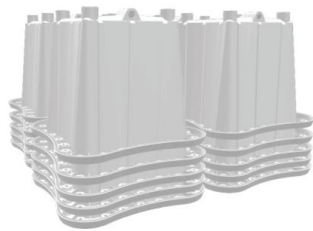
Just like our 10 Gallon Ez-Pz Planter™ & our 10 Gallon Medical Planter™, there are many ways you can buy The 1.2 & 3 Gallon Ez-Pz Planter™ or The 1.2 & 3 Gallon Medical Planter™.

1.2 GALLON PLANTER



INDIVIDUALLY*

*Available in Store Only



PALLET UP TO 800

*Available in Store & Online



1.2 GAL 12-PLANTER GROWERS KIT

3 GALLON PLANTER



INDIVIDUALLY*

*Available in Store Only



PALLET UP TO 531

*Available in Store & Online



3 GAL 6-PLANTER GROWERS KIT

AVAILABLE COLORS AND SKU NUMBERS (1.2 & 3 GALLON PLANTERS ONLY)

The 1.2 & 3 Gallon Ez-Pz Planter™ is available in a variety of colors.. They are available individually in store only.

1.2 GALLON PLANTER

3 GALLON PLANTER

GORILLA BLACK



INDIVIDUAL PLANTER: EZ01GBP
PALLET OF 800 PLANTERS:
EZ01GB800P

GORILLA BLACK



INDIVIDUAL PLANTER: EZ03GBP
PALLET OF 531 PLANTERS:
EZ03GB531P

COLOR



INDIVIDUAL PLANTER: EZ01**P
PALLET OF 800 PLANTERS:
EZ01**800P

COLOR



INDIVIDUAL PLANTER: EZ03**P
PALLET OF 531 PLANTERS:
EZ03**531P

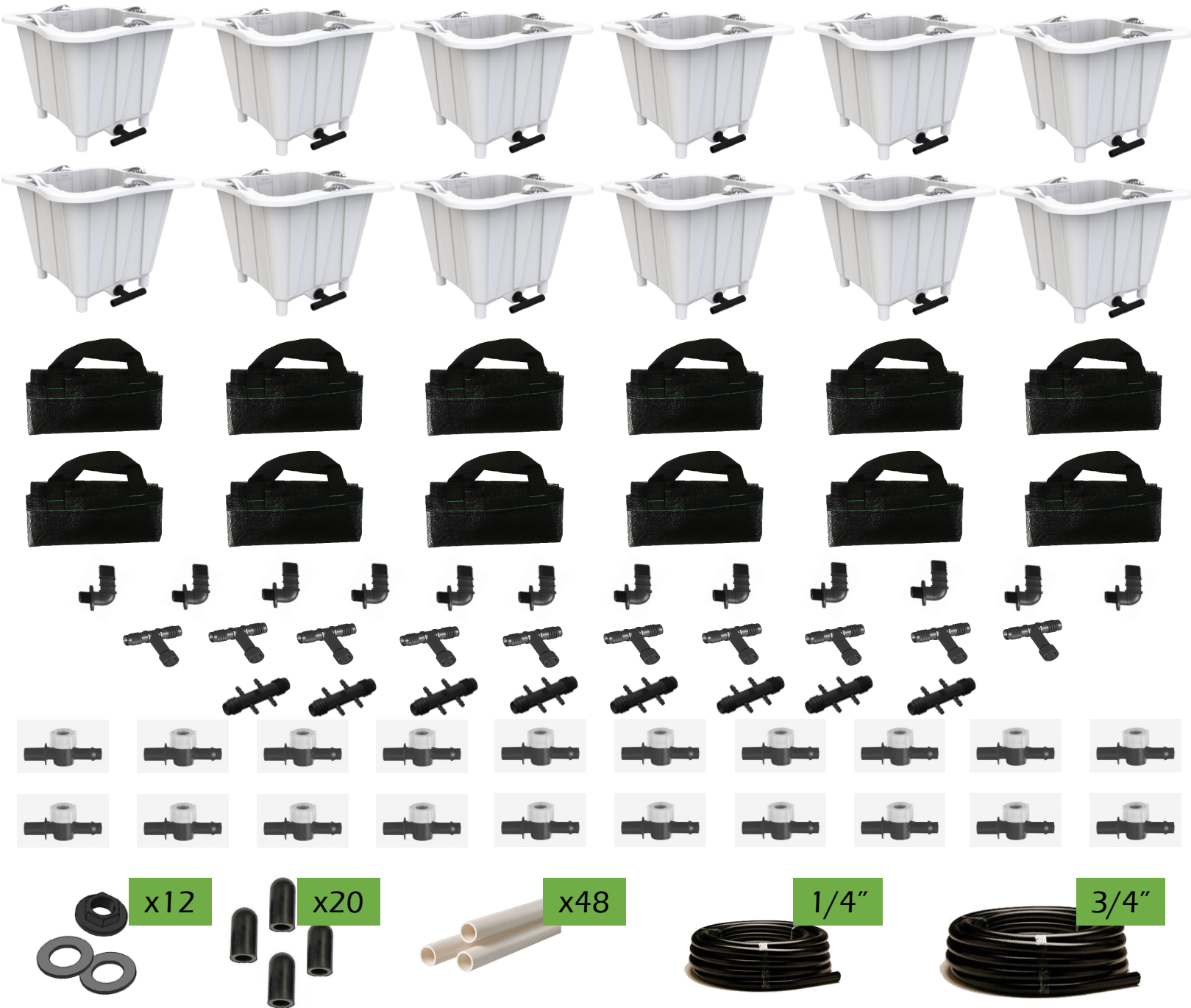
** = First letters of the color selected.

Colors for the 1.2 and 3 Gallon will be available soon.

The Ez-Pz Planter™.

1.2 GALLON 12-PLANTER GROWERS KIT

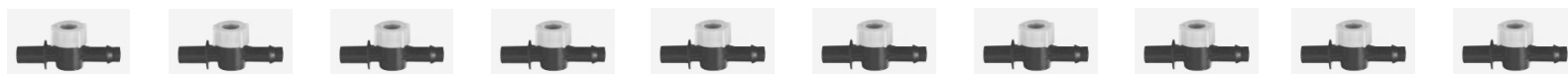
1.2 Gallon 12-Planter Growers Kit Includes: 12- 1.2 Gallon Planters, 12- Reusable Inserts/Screen Pots™, 20- Irrigation Valves, 20-Rubber Caps, 1- 2 Series GPH Inline Pump (Optional), 1- 25Ft FDA Approved 1/4" PVC Hose, 1- 25Ft FDA Approved 3/4" PVC Hose, 48- 1-1/2" PVC (Legs), 12- Tub Elbow MPT 3/8" by 1/2" MPT W/ 2 Silicone Washers & Nut, 10- FPT 3/4" Barb Tub Tee, 8- 6 Way Reducing Connector 3/4" to 1/4"



The Ez-Pz Planter™.

3 GALLON 6-PLANTER GROWERS KIT

3 Gallon 6-Planter Growers Kit Includes: 6- Three Gallon Planters, 6- Reusable Inserts/Screen Pots™, 10- Irrigation Valves, 10-Rubber Caps, 1- 2 Series GPH Inline Pump (Optional), 1- 25Ft FDA Approved 1/4" PVC Hose, 1- 25Ft FDA Approved 3/4" PVC Hose, 24- 1-1/2" PVC (Legs), 6- Tub Elbow MPT 3/8" by 1/2" MPT W/ 2 Silicone Washers & Nut, 5- FPT 3/4" Barb Tub Tee, 4- 6 Way Reducing Connector 3/4" to 1/4"



The Ez-Pz Planter™.



THE
Medical  Planter



The Medical Planter™ Family of Products.



MicroBlok[®] antimicrobials



The Art & Science of Color

The Medical Planter™.



MicroBlok® market applications

Plastics Color Corporation has the antimicrobial formulations you need for your polymer products. MicroBlok® is used in appliances, medical devices, and other consumer contact applications. MicroBlok impedes the growth of bacteria on surfaces of products, greatly reducing stains and odors, and impeding product deterioration.

It is an ideal inhibitor for use in products subject to high humidity such as those intended for kitchen and bath environments, as well as outdoor uses including furniture and decking. Additional product uses include sponges, bath mats, plastic gloves, scrub brushes, and footwear.

MicroBlok is appropriate for virtually any molding or extrusion application and can be custom formulated for any special manufacturing process.

MicroBlok has undergone rigorous laboratory testing under ISO 22196:2011. This ISO test measures the growth of bacteria within a 24-hour period on the tested plastic substrates. These tests measure the inhibition of bacteria, fungi, molds, and other microbes on the tested plastic substrates.

Plastics Color's MicroBlok antimicrobial technologies are engineered into resins during the compounding process, eliminating the need for secondary steps. It's a safe and sure way to deliver microbe-fighting products to you without any additional material **modifications on your part.** And for your convenience, we offer two types—silver based and zinc based.



The Medical Planter™.

MicroBlok® S

The silver ions within MicroBlok S are dispersed uniformly throughout the polymer matrix. These silver ions create a large "internal" specific surface within the polymer and this creates an extremely high efficiency antimicrobial action. These silver ions are not depleted during the inhibition process, thus the antimicrobial effect of MicroBlok S is not diminished over time.

Plastics Color's MicroBlok S product line is custom blended in a wide variety of resins. And although it can be used in any resin, the most common usage is in TPU, PC, ABS, PP, and PE. MicroBlok S is stable at any polymer processing temperature.



MicroBlok® Z

MicroBlok Z contains a zinc compound whose anti-fungal effect is derived from its ability to disrupt membrane transport by blocking the proton pump that energizes the transport mechanism. This creates an extremely high efficiency antimicrobial action.

The zinc compounds within MicroBlok Z are not depleted during the inhibition process, thus the antimicrobial effect of MicroBlok Z is not diminished over time. MicroBlok Z is stable below 240 degrees Celsius. Ideal resins for MicroBlok Z include those with lower melting temperatures including TPE, TPU, PE, and PP to name a few.



Antimicrobial plastics formulated with antimicrobials help suppress the growth of odor and stain-causing microorganisms on the treated plastic, but they are not intended to be a substitute for good hygiene or to prevent foodborne or infectious illnesses.

about us

plastics color



Since 1964, Plastics Color has been a

pioneer in an industry constantly moving forward. Delivering color concentrates, plastic additives, and master batches is just the beginning of our story. We partner with you, from concept to commercialization, to develop world-class solutions for your users - no matter what industry you serve.

We collaborate at the earliest stage of product development to answer challenges before they become real problems. We immerse ourselves into your operation, creating solutions for everything from the product itself to the packaging to the production to the storage.

Our global standard for raw-material supply underpins quality assurance at all of our manufacturing facilities. For us, product consistency is the universal language.

We are particularly proud of our leading role in today's "plastics evolution." Fully equipped and accredited laboratories deliver customized support in processing, material selection, and physical testing. Enhanced correlation of color matching and quality control are givens as we understand color is critical to your business. Our accelerated R&D process allows for production breakthroughs.

our services

- solutions center
- color matching
- lab services
- design assistance
- clean compounding facilities
- toll compounding
- necessary certifications
- technical expertise
- regulatory guidance



Erin M. Tesch, M.A.
Vice President
Washington, D.C.



Practice Areas

- ▲ Pesticide Regulation - U.S. & Canada
- ▲ Pesticide Registration
- ▲ Antimicrobials
- ▲ Biopesticides
- ▲ Microbials

Ms. Erin Tesch has over 20 years of experience providing regulatory guidance and compliance assistance on a broad spectrum of environmental topics. She has been involved in a significant number of pesticide policy issues over the years, both individually and as a participant, in several industry coalitions.

Ms. Tesch specializes in the area of antimicrobial registration with a strong emphasis on material preservatives, hard surface sanitizers, disinfectants and other novel products with significant public health claims. Ms. Tesch manages the Silver Task Force North America and is an active member of the U.S. Consumer Specialty Products Association and American Chemistry Council Biocide Panel. Through her regulatory work and industry participation, Ms. Tesch has developed strong working relationships with U.S. EPA and Canada's PMRA, and she is in daily contact with staff and management of the Antimicrobial Division. Ms. Tesch works with regulators to negotiate data requirements and label claims, conducts literature surveys, coordinates testing activities, prepares complete registration packages and provides effective follow-up to ensure successful registration. Ms. Tesch also assists clients in developing and presenting training programs to bring pesticide registration and compliance functions in-house. Ms. Tesch's extensive knowledge of the regulatory process and strong working relationships with regulatory agencies allows her to provide an unparalleled level of registration services and regulatory support to her clients.

Prior to joining Technology Sciences Group Inc. (TSG), Ms. Tesch was Project Manager and Senior Analyst at Dames & Moore's Environmental Regulatory Services Group, where she provided compliance assistance and regulatory research and analysis for complex programs under TSCA, RCRA, CERCLA, CAA and CWA. Ms. Tesch monitored and analyzed federal, state and international environmental policies, laws and regulations, in addition to preparing monthly corporate newsletters on environmental activities occurring within the U.S., Latin America and Europe. She was also a Regulatory Analyst at RegNet Environmental Services where she served as Operations Manager for several chemical consortia and conducted pesticide registration activities.

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Credentials & Professional Memberships

- ▲ B.A., Political Science, George Washington University
- ▲ M.A., Environmental Public Policy, Norwich University
- ▲ Silver Task Force North America, Executive Director
- ▲ American Chemistry Council (ACC), Biocides Panel
- ▲ Consumer Specialty Products Association (CSPA)
- ▲ Canadian Consumer Specialty Products Association (CCSPA)
- ▲ Society of Chemical Manufacturers & Affiliates (SOCMA), Nanotechnology Coalition



STUDY REPORT

Study Title

Antibacterial Activity and Efficacy of PolyOne Non-porous Test Substance

Test Method

Japanese Industrial Standard Z 2801
Antibacterial Products – Test for Antibacterial Activity and Efficacy

Study Identification Number

NG8195

Study Sponsor

Ryan Divens
PolyOne Corp
33587 Walker Road
Avon Lake, OH 44012
Ryan.Divens@polyone.com

Test Facility

Microchem Laboratory
1304 W. Industrial Blvd
Round Rock, TX 78681
(512) 310-8378

Testing performed by: M. Cash



JIS Z 2801: General Information

The Japanese Industrial Standard Committee (JIS) is an international organization that develops and standardizes test methods for a variety of products and materials. The JIS method Z 2801 is a quantitative test designed to assess the performance of antimicrobial finishes on hard, non-porous surfaces. The method can be conducted using contact times ranging from ten minutes up to 24 hours. For a JIS Z 2801 test, non-antimicrobial control surfaces are used as the baseline for calculations of microbial reduction. The method is versatile and can be used to determine the antimicrobial activity of a diverse array of surfaces including plastics, metals, and ceramics.

Laboratory Qualifications Specific to JIS Z 2801

Microchem Laboratory began conducting the JIS Z 2801 test method in 2007. Since then, the laboratory has performed thousands of JIS Z 2801 tests on a broad array of test substances, against myriad bacteria, fungi, and viruses. The laboratory is skilled with regard to modifications of the method to accommodate customer needs. Every JIS Z 2801 test at Microchem Laboratory is performed in a manner that is appropriate for the test substances submitted by the Study Sponsor, while maintaining the integrity of the study.

Study Timeline





Test Substance Information

The test substances were received on 06 JAN 2017



Note: photos depict test substances used in this study

Test Substances Received: PolyOne Control Resin
Withstand™ Ldr: 4.000%
Withstand™ Ldr: 10.000%
Withstand™ Ldr: 25.000%

Test Substances arrived in dimensions that were not optimal for the conduct of the Study. Test substances were cut down to ideal sizes for the Study.

Test Microorganism Information

The test microorganism(s) selected for this test:

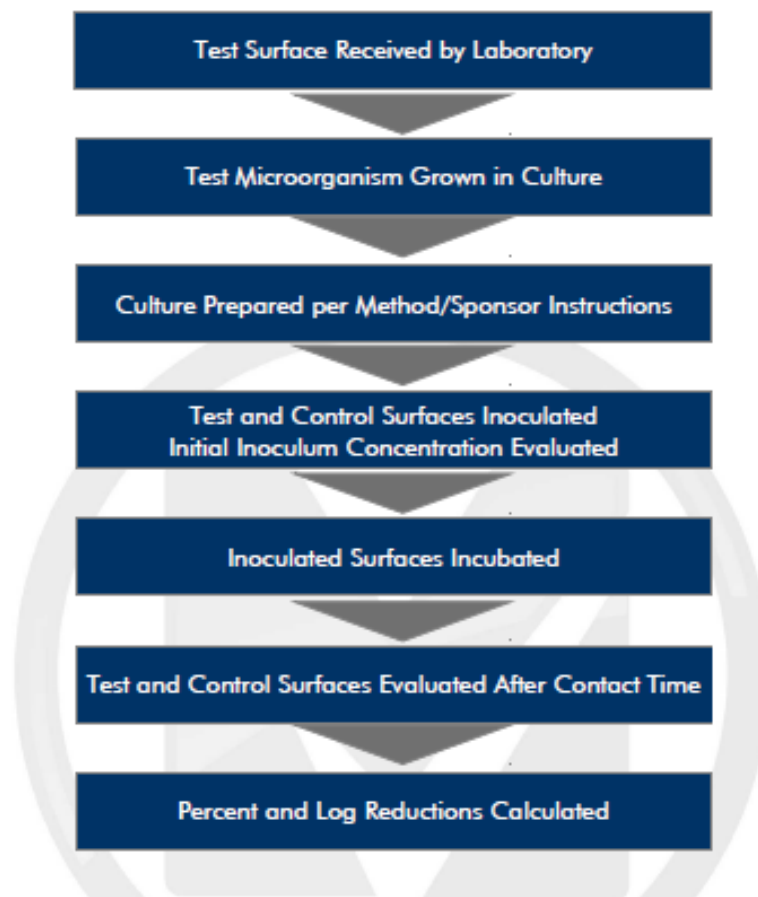


Escherichia coli 8739

This bacteria is a Gram-negative, rod shaped, facultative anaerobe commonly found in the gastrointestinal tract of mammals. Although most serotypes of this microorganism are harmless there are pathogenic groups of *E. coli* such as enterohemorrhagic (EHEC), verocytotoxin producing (VTEC) and Shiga-like toxin producing (STEC) that can cause a multitude of illnesses. *E. coli* is relatively susceptible to disinfection when dried on a surface, yet it can be a challenging microorganism to mitigate in solution.



Diagram of the Procedure



Summary of the Procedure

- The test microorganism is prepared, usually by growth in a liquid culture medium.
- The suspension of test microorganism is standardized by dilution in a nutritive broth (this affords microorganisms the opportunity to proliferate during the test).
- Control and test surfaces are inoculated with microorganisms, and then the microbial inoculum is covered with a thin, sterile film. Covering the inoculum spreads it, prevents it from evaporating, and ensures close contact with the antimicrobial surface.
- Microbial concentrations are determined at "time zero" by elution followed by dilution and plating to agar.
- A control is run to verify that the neutralization/elution method effectively neutralizes the antimicrobial agent in the antimicrobial surface being tested.
- Inoculated, covered control and antimicrobial test surfaces are allowed to incubate undisturbed in a humid environment for 24 hours, usually at body temperature.
- After incubation, microbial concentrations are determined. Reduction of microorganisms relative to the control surface is calculated.



Criteria for Scientific Defensibility of a JIS Z 2801 Study

For Microchem Laboratory to consider a JIS Z 2801 study to be scientifically defensible, the following criteria must be met:

1. The average number of viable bacteria recovered from the time zero samples must be approximately 1×10^4 cells/cm² or greater.
2. Ordinary consistency between replicates must be observed for the time zero samples.
3. The number of viable bacteria recovered from the control surface after the contact time must not be significantly ($>2\text{-Log}_{10}$) less than the original inoculum concentration.
4. Positive/Growth controls must demonstrate growth of appropriate test microorganism.
5. Negative/Purity controls must demonstrate no growth of test microorganism.

Passing Criteria

JIS specifies a performance criteria for antimicrobial efficacy of greater than or equal to a 2 Log₁₀ or 99% reduction in in the test microorganisms when comparing the treated surface to the control surface after the contact time. Alternatively, passing criteria may be determined by the Study Sponsor in accordance with pertinent governmental regulations.

Testing Parameters used in this Study

Test Substance Size:	45 mm x 60 mm	Film Used? (Size):	Yes (40 mm x 40 mm)
Replicates:	Double (2)		
Culture Growth Media:	Tryptic Soy Broth	Culture Growth Time:	18 hours
Culture Dilution Media:	1:500 Nutrient Broth	Culture Dilution Supplement:	N/A
Inoculum Concentration:	$\sim 1 \times 10^6$ CFU/Sample	Inoculum Volume:	0.400 mL
Contact Time:	24 hours	Contact Temp.:	36°C \pm 1°C
Neutralizer:	D/E Broth (10 mL)	Enumeration Plate Media:	Tryptic Soy Agar
Enumeration Plate		Enumeration Plate	
Incubation Temperature:	36°C \pm 1°C	Incubation Time:	24-48 hours



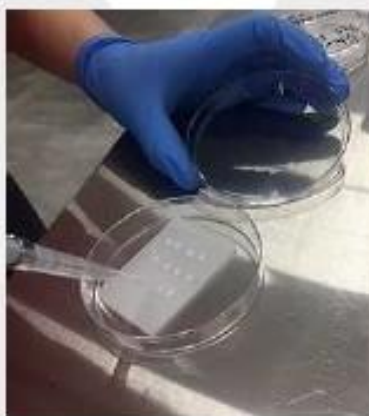
Study Modifications

No further modifications were made to the method for this study.

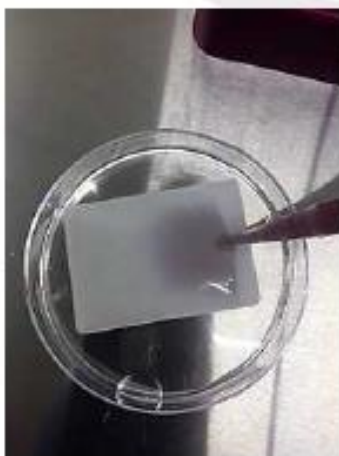
Study Notes

Test substance cut from original size, and measured approximately 45mm x 60mm after cutting. For all test substances, the comparatively thicker side was tested – measuring 0.060" except for PolyOne's control replicate 2. For control replicate 1, 0.060" thickness was tested and for replicate 2, 0.030" thickness was tested.

Study Photographs



Pictured above is the inoculation portion of efficacy testing



The pictures above show the neutralization portion of efficacy testing. Specifically,



Control Results

Neutralization Method: N/A

Media Sterility: Sterile – No Growth

Growth Confirmation: Confirmed – Target Microorganism

Calculations

$$\text{Percent Reduction} = \left(\frac{B - A}{B} \right) \times 100$$

Where:

B = Number of viable test microorganisms on the control carriers after the contact time

A = Number of viable test microorganisms on the test carriers after the contact time

$$\text{Log}_{10} \text{Reduction} = \text{Log} \left(\frac{B}{A} \right)$$

Where:

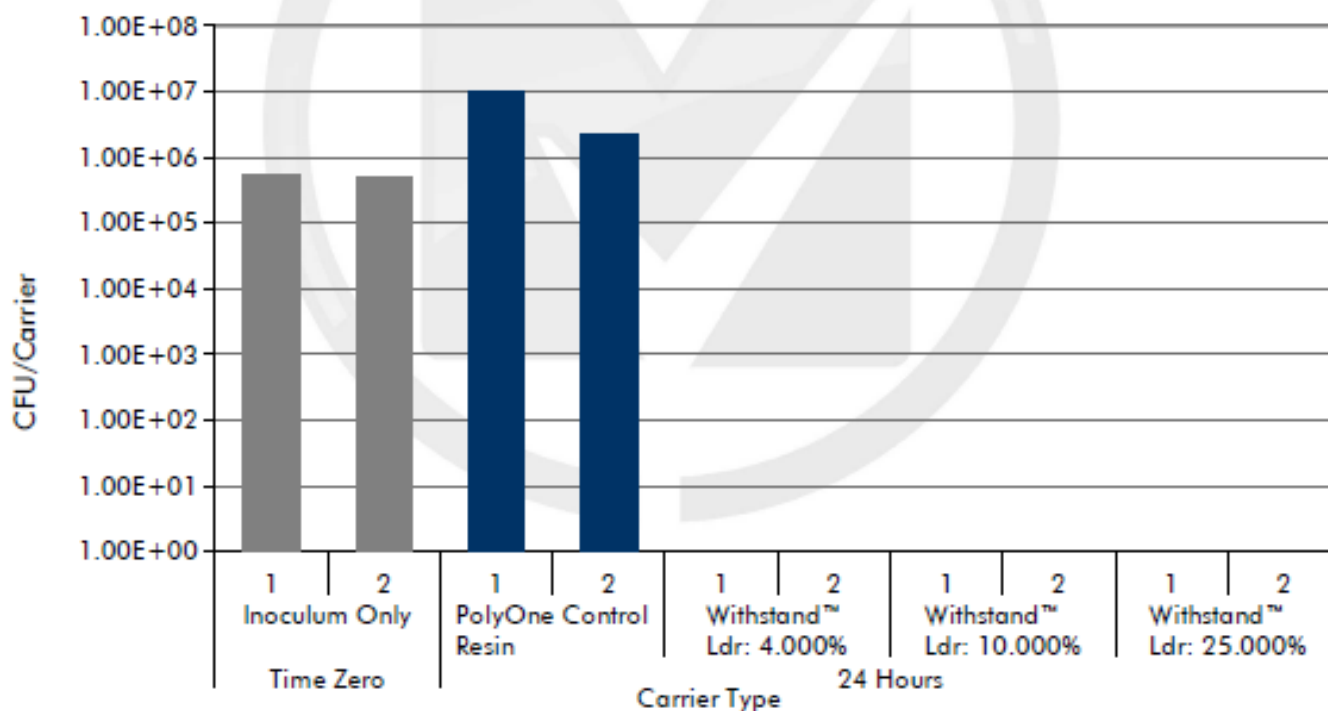
B = Number of viable test microorganisms on the control carriers after the contact time

A = Number of viable test microorganisms on the test carriers after the contact time



Results of the Study: *E. coli* 8739

Test Microorganism	Contact Time	Carrier Type	Replicate	Replicate CFU/Carrier	Average CFU/Carrier	Percent Reduction Compared to Control at Contact Time	Log ₁₀ Reduction Compared to Control at Contact Time
<i>E. coli</i> 8739	Time Zero	Inoculum Only	1	5.40E+05	5.15E+05	N/A	
			2	4.90E+05			
	24 Hours	PolyOne Control Resin	1	1.00E+07	6.13E+06		
			2	2.25E+06			
		Withstand™ Ldr: 4.000%	1	<5.00E+00	<5.00E+00	>99.99992%	>6.09
			2	<5.00E+00			
		Withstand™ Ldr: 10.000%	1	<5.00E+00			
			2	<5.00E+00			
		Withstand™ Ldr: 25.000%	1	<5.00E+00			
			2	<5.00E+00			



Note: The limit of detection for this study is 5 CFU/Carrier. Values below the limit of detection are shown as <5.00E+00 on the table and zero on the graph.



The results of this study apply to the tested substances(s) only. Extrapolation of findings to related materials is the responsibility of the Sponsor.

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3/10/2017

The Bucket Company
Microbiological Analysis Report

Project No: **11770**
Date Received: 2/25/2017
Date of Analysis: 3/7/2017

Subject: Bacteria Resistance Test in Hydrophobic or Polymeric Surfaces

Protocol

JIS Z 2801:2010, Japanese Industrial Standard Test for Antimicrobial Activity and Efficacy in Antimicrobial Products, was followed. Specifics of the test method applied to this project are described below.

Overview of Test Protocol

This test method is designed to evaluate (quantitatively) the antimicrobial effectiveness of agent(s) incorporated or bound into or onto mainly flat (two dimensional) hydrophobic or polymeric surfaces.

Specifics of the Test

Sample Identification

Lab ID	Sample ID
11770-1	LDR Antimicrobial 0% (control)
11770-2	LDR Antimicrobial 2%
11770-3	LDR Antimicrobial 4%

Test Organism

Escherichia coli ATCC# 8739

Test Protocol

Submitted samples were inoculated with 0.4 ml of a 0.2% nutrient broth seeded with a standardized culture of the test organism in triplicate. The inoculated samples were covered with an inert film and incubated at $36 \pm 2^\circ\text{C}$ in a humidity chamber for 24 hours. Surviving microorganisms were recovered via elution of the broth inoculum from the test sample into neutralizing broth. Microbial counts of the samples were determined and the percent reduction of microorganisms (treated versus untreated samples at timepoint) was calculated.

**BIOSAN**
LABORATORIES, INC.

3/10/2017

The Bucket Company
Microbiological Analysis Report

Project No: **11770****Results**

Tables 1 and 2 show the microbial resistance test results.

Conclusions

The Bucket Company sample LDR Antimicrobial 2% showed no antimicrobial activity against *Escherichia coli* after 24 hours incubation in the JIS Z 2801 test method with 0.00% reduction and an antimicrobial activity value of 0.00. Sample LDR Antimicrobial 4% showed >99.95% reduction and an antimicrobial activity value of >3.28. Percent reduction and antimicrobial activity were calculated against LDR Antimicrobial 0% control at the 24 hour timepoint.

Alicia Davis

Laboratory Manager

Silvania Bristo

Microbiologist



3/10/2017

The Bucket Company
Microbiological Analysis Report

Project No: **11770**

Test Method: JIS Z 2801:2010

Table 1. Recovered Organisms from controls at Time = 0 hours

Lab Identification	<i>Escherichia coli</i> ATCC# 8739 cells/cm ²			
	Replicate 1	Replicate 2	Replicate 3	Average
11770-1 (control)	7.34×10^3	8.59×10^3	6.72×10^3	7.55×10^3

Table 2. Recovered Organisms from controls and samples at Time = 24 hours

Lab Identification	<i>Escherichia coli</i> ATCC# 8739 cells/cm ²				% Reduction	Antimicrobial Activity
	Replicate 1	Replicate 2	Replicate 3	Average		
11770-1 (control)	2.94×10^5	2.17×10^5	7.75×10^3	1.73×10^5	n/a	n/a
11770-2	2.97×10^5	2.08×10^5	2.53×10^5	2.53×10^5	0.00%	0.00
11770-3	2.77×10^2	<0.625	<0.625	<92.8	>99.95%	>3.28

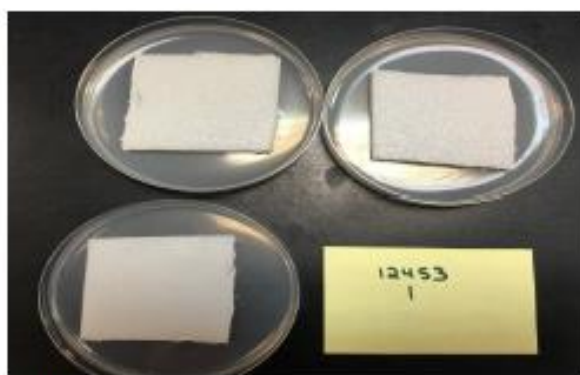


9/15/2017

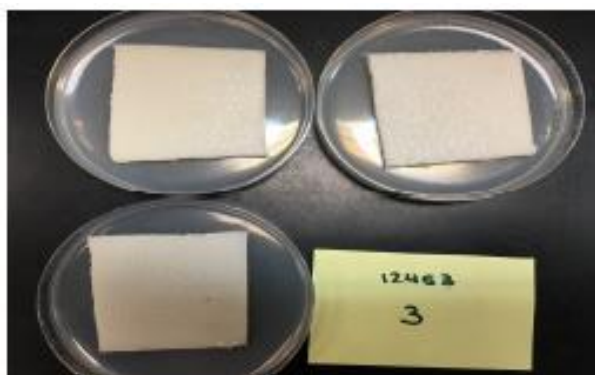
The Bucket Company
Preliminary Microbiological Analysis Report - ASTM G21-15

Project No: 12453

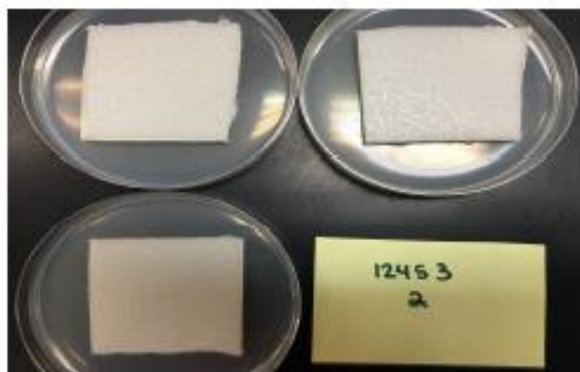
Photos after 1 week of testing:



12453-1



12453-3



12453-2



Filter Paper Growth Control

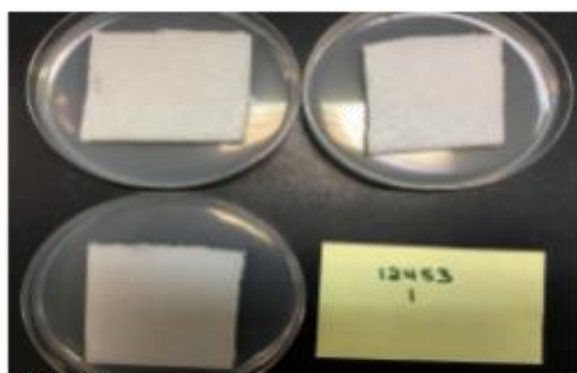


9/22/2017

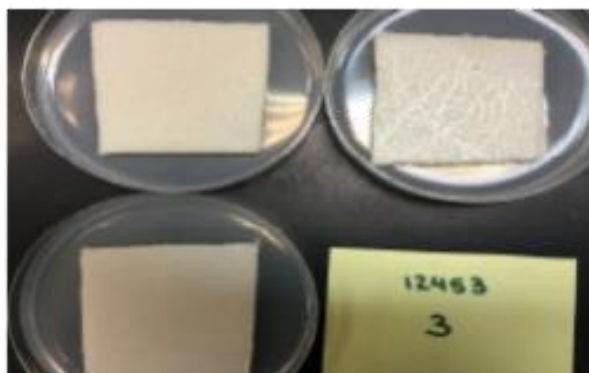
The Bucket Company
Preliminary Microbiological Analysis Report - ASTM G21-15

Project No: 12453

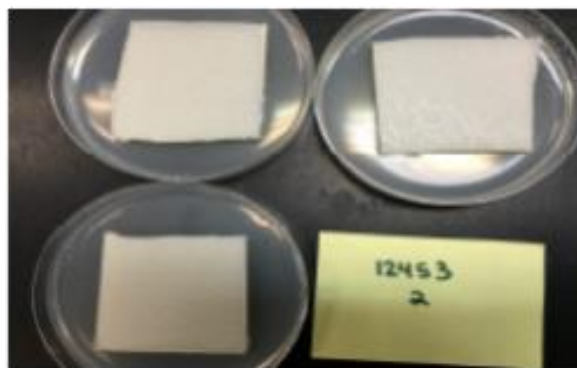
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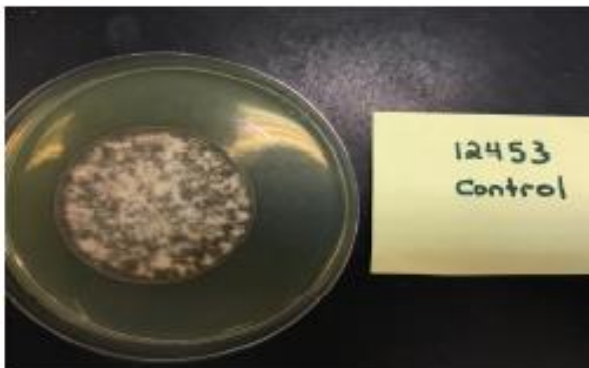
12453-1



12453-3



12453-2



Filter Paper Growth Control

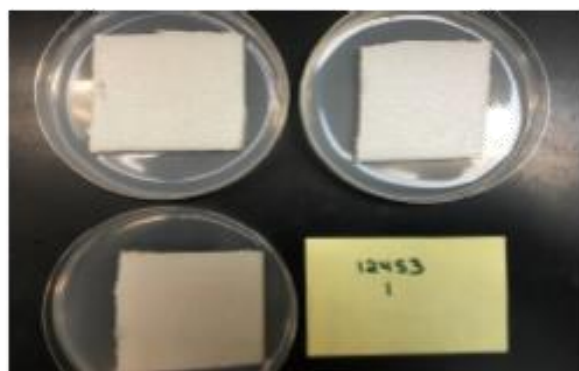


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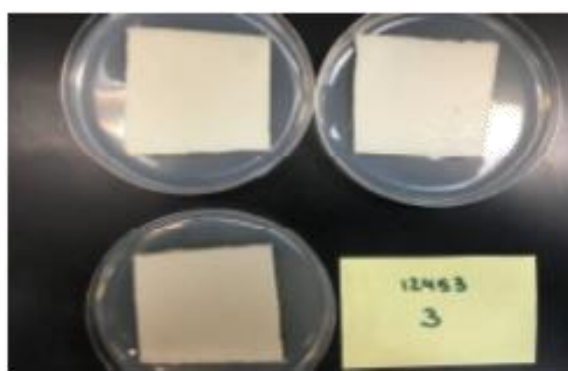
The Bucket Company
Preliminary Microbiological Analysis Report - ASTM G21-15

Project No: 12453

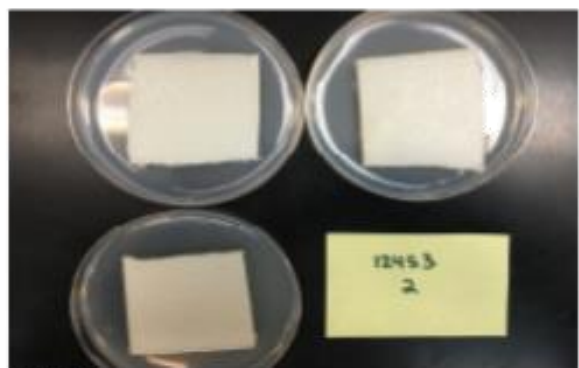
Photos after 3 weeks of testing:



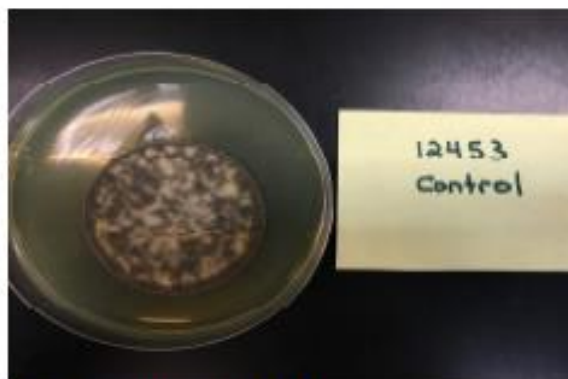
12453-1



12453-3



12453-2



Filter Paper Growth Control

AVAILABLE COLOR AND SKU NUMBERS

The Medical Planter™ is only available in white, we can custom make any color you would like with a minimum order of 500.

4 Planter Kits Include: 4- Ten Gallon Planters, 4- Irrigation Manifolds, 16-Irrigation Manifold Brackets, 4- Union Valves (1/2" x 1/2"), 40- 360 Deg Sprayers, 1- Worker Station, 32- Branch Spreader Arms (Comes with Stake Grower's Kit), 4-Reusable Inserts/Screen Pots™, 4-Rubber Drain Grommets, 1- Danner 530 GPH Inline/Submersible Pump (Optional), 1- 25Ft FDA Approved PVC Hose, 1- Trellis Net (5Ftx15Ft) (Comes with Trellis Grower's Kit), 16- 1-1/4" PVC (Legs), 4- 1/2" MPT Tub Outlet Tee, 4- 1/2" MPT 90° Tub Fitting, 4- 1/2" FPT Barb Fitting.

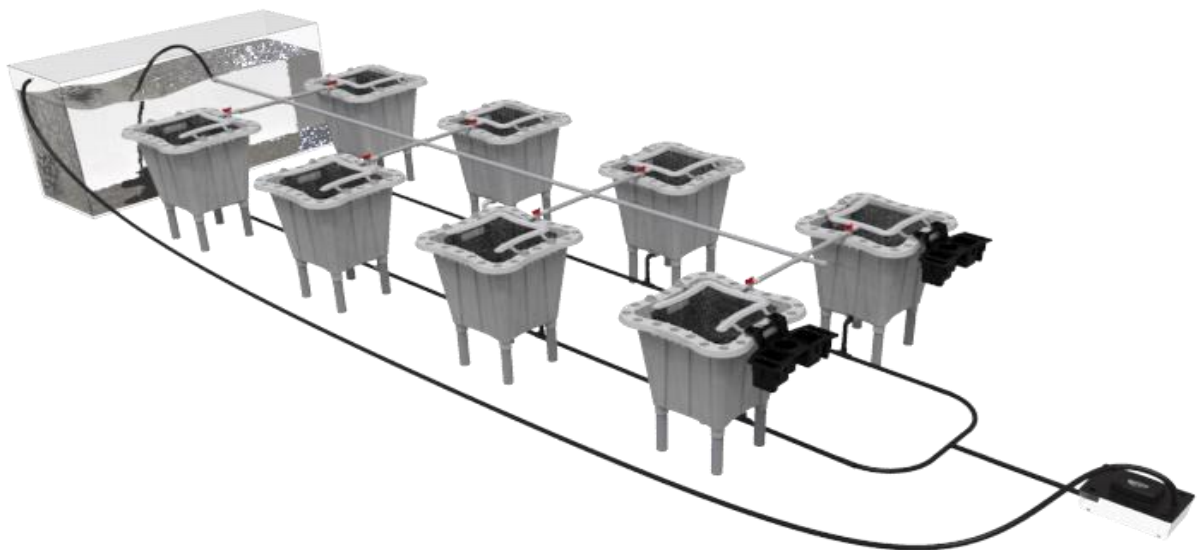
WHITE



INDIVIDUAL PLANTER: MP10WHP
10 PACK PLANTERS: MP10GWH10P



10 GALLON 4-PLANTER TRELLIS GROWERS KIT: MP10WH4TGK
10 GALLON 4-PLANTER STAKE GROWERS KIT: MP10WH4BK



AVAILABLE COLOR AND SKU NUMBERS

The **Medical Planter™** is only available in white, we can custom make any color you would like with a minimum order of 500.

1.2 Gallon 12-Planter Growers Kit Includes: 12- 1.2 Gallon Planters, 12- Reusable Inserts/Screen Pots™, 20- Irrigation Valves, 20-Rubber Caps, 1- 2 Series GPH Inline Pump (Optional), 1- 25Ft FDA Approved 1/4" PVC Hose, 1- 25Ft FDA Approved 3/4" PVC Hose, 48- 1-1/2" PVC (Legs), 12- Tub Elbow MPT 3/8" by 1/2" MPT W/ 2 Silicone Washers & Nut, 10- FPT 3/4" Barb Tub Tee, 8- 6 Way Reducing Connector 3/4" to 1/4"

3 Gallon 6-Planter Growers Kit Includes: 6- Three Gallon Planters, 6- Reusable Inserts/Screen Pots™, 10- Irrigation Valves, 10-Rubber Caps, 1- 2 Series GPH Inline Pump (Optional), 1- 25Ft FDA Approved 1/4" PVC Hose, 1- 25Ft FDA Approved 3/4" PVC Hose, 24- 1-1/2" PVC (Legs), 6- Tub Elbow MPT 3/8" by 1/2" MPT W/ 2 Silicone Washers & Nut, 5- FPT 3/4" Barb Tub Tee, 4- 6 Way Reducing Connector 3/4" to 1/4"

1.2 GALLON (WHITE)



INDIVIDUAL PLANTER: MP01WHP
PALLET OF 800 PLANTERS:
MP01GWH800P

1.2 GALLON 12-PLANTER GROWERS KIT:
MP01WH12GK

3 GALLON (WHITE)



INDIVIDUAL PLANTER: MP03WHP
PALLET OF 531 PLANTERS:
MP03GWH531P

3 GALLON 6-PLANTER GROWERS KIT:
MP03WH6GK



The Ez-Pz Screen Pots™ Family of Products.



One of the most versatile products of the Ez-Pz Planter™ family is the Ez-Pz Screen Pot™. They can be used with and without the Ez-Pz Planter™ system.

Not only are The Ez-Pz Screen Pots™ affordable, they are 100% reusable allowing you to save money and maximizing your investment.



GROW BIG PLANTS FASTER

ZERO WATER RETENTION!

Fabric pots retain water which is proven to bring up the humidity in your grow room. Our patented Ez-Pz Screen Pots™ won't retain any water keeping your plants and your grow room properly drained.

UNIVERSAL DESIGN

Works with soil based mediums (Soil, Coco, Etc.) and hydroponic systems. Allows you to easily and safely transplant your plants from planter to planter without damaging roots and shocking your plants.

WON'T TRAP NUTRIENTS!

You spend a lot of money on your nutrients. Fabric pots trap fertilizers and restrict air flow. NEVER WASH A FABRIC POT AGAIN! The Ez-Pz Screen Pot™ won't retain these nutrients and don't need to be put into a commercial washing machine to be reused.

AIR ROOT PRUNING SYSTEM

The Ez-Pz Screen Pot™ manages the root ball for you, creating perfectly shaped roots every time. No need to trim or relocate roots, they grow naturally into the Screen Pot and don't need to be touched!

Adds Oxygen Bubbles and allows more Air-Flow to pass through your plants root zone, meaning Bigger, Better & Healthier Roots.



The Ez-Pz Screen Pots™.



The Ez-Pz Irrigation Manifolds™ Family of Products.



Our Patent Pending Irrigation Manifold is sealed and individually tested to 50 psi ensuring that every single manifold will be leak-proof.

They can be used with and without the Ez-Pz Planter™ system.

Universal Design

The EZ-PZ Irrigation Manifold™ has a 1/2" male pipe thread fitting and can be used in numerous applications. We have clients using them in vertical farming, standard drip irrigation growing and many more custom applications. Your only limit is your imagination.

Can be used with or without sprayers!

Whatever your needs, the irrigation manifold comes with 4 pre-drilled holes for using mister/sprayers. The manifold can be used with or without sprayers, creating a low water consumption drip system. Regulate the flow of water to your personal choice by using our valves.



CAN BE USED
WITHOUT OUR
PLANTERS

The Ez-Pz Irrigation Manifold™.



THE
Bucket  Company

Replacement Parts

OEM Parts



We have spent countless hours and many sleepless nights working on every part that goes into making the perfect kit. Know that every piece of our system has been thoroughly tested in a variety of environments and by different non-biased growers to ensure optimal quality.

Whether its something as small as a sprayer or as important as an irrigation manifold, we have tested it time and time again.



Replacement Parts

PACKAGED QUANTITIES AND SKU NUMBERS



INSERTS / SCREEN POTS
10 GAL (4 PACK)

10 GALLON REUSABLE INSERT
4 PACK: EZ10RI4PKR



INSERTS / SCREEN POTS
10 GAL. (160 PACK)

10 GALLON REUSABLE INSERT
160 BOX: EZ10RI160PKGR



INSERTS / SCREEN POTS
5 GAL. (4 PACK)

5 GALLON REUSABLE INSERT
4 PACK: EZ05RI4PKR



INSERTS / SCREEN POTS
5 GAL. (160 PACK)

5 GALLON REUSABLE INSERT
160 BOX: EZ05RI140PKGR



INSERTS / SCREEN POTS
3 GAL. (6 PACK)

3 GALLON REUSABLE INSERT
12 PACK: EZ03RI6PKR



INSERTS / SCREEN POTS
3 GAL. (300 PACK)

3 GALLON REUSABLE INSERT
300 BOX: EZ03RI300PKGR



INSERTS / SCREEN POTS
1.2 GAL. (12 PACK)

3 GALLON REUSABLE INSERT
12 PACK: EZ01RI12PKR



IRRIGATION MANIFOLD KIT
(INDIVIDUAL)

INDIVIDUAL KIT: EZ1IMKPKG
INCLUDES: (1) MANIFOLD, (1) VALVE
& (10) SPRAYERS.



INSERTS / SCREEN POTS
1.2 GAL. (300 PACK)

3 GALLON REUSABLE INSERT
12 PACK: EZ01RI300PKR



IRRIGATION MANIFOLD
(INDIVIDUAL)

INDIVIDUAL: EZ10IM



IRRIGATION MANIFOLD
(25 PACK)

25 PACK: EZ10IM25PK

PACKAGED QUANTITIES AND SKU NUMBERS



IRRIGATION MANIFOLD KIT
(25 PACK)

PACK OF 25 KITS: EZ25IMKPKG
INCLUDES: (25) MANIFOLD,
(25) VALVES & (250) SPRAYERS.



UNION VALVES
(25 PACK)

1/2" FEMALE X 1/2" FEMALE
2 PACK: EZ12UV25PKGR



MANIFOLD BRACKETS
(4 PACK)

4 PACK: EZ11MB4PKR



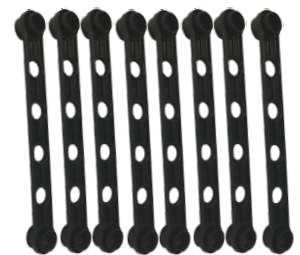
RUBBER DRAIN GROMMETS
(20 PACK)

3/4" ID RUBBER GROMMET
20 PACK: EZ34RG20PKGR



WORKER STATION
(INDIVIDUAL)

INDIVIDUAL: EZ10WS1PKGR



BRANCH SPREADER ARMS
(8 PACK)

8 PACK: EZBSA8PKGR



360 DEGREE SPRAYERS
(100 PACK)

OPTIONAL REPL. SPRAYERS
100 PACK: EZ360S100PKGR



180 DEGREE SPRAYERS
OCTOBER 2018

OPTIONAL REPL. SPRAYERS
100 PACK: EZ180S100PKGR



TRELLIS NETTING 5'X15'
OCTOBER 2018

INDIVIDUAL: EZ515TNET

coming
soon!

MORE FUTURE PRODUCTS



3 GALLON EZ-PZ PLANTER™
OCTOBER 2018



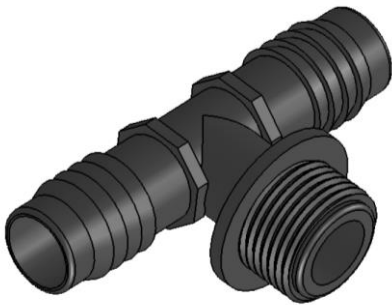
1.2 GALLON EZ-PZ
PLANTER™
OCTOBER 2018



26.4 GAL COLLAPSIBLE
RESV.
OCTOBER 2018



53 GAL COLLAPSIBLE RESV.
OCTOBER 2018



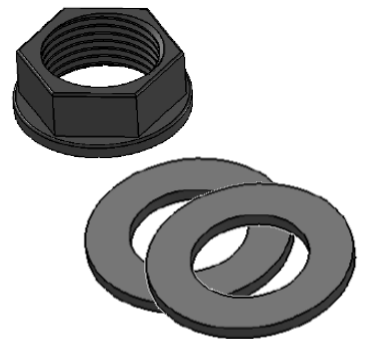
3/8" MPT TUB TEE
FITS 3 GAL PLANTERS
OCTOBER 2018

25 BOX: EZFIT3/8BT25BOX



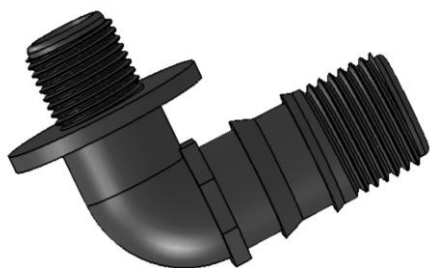
3/8" MPT. BARB TEE FITTING
FITS 3 GAL PLANTERS
OCTOBER 2018

25 BOX: EZFIT3/8B4WAY25
BOX



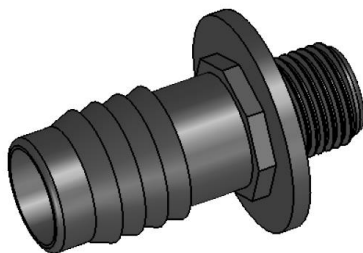
3/8" NPT NUT W/ 2 WASHERS
FITS 3 GAL PLANTERS
OCTOBER 2018

Replacement Parts



3/8" MPT 90° TUB FITTING
W/ 1/2" MPT OR 3/4" BARB
FITS 3 GAL PLANTER
OCTOBER 2018

25 BOX: EZFIT3/8BELB25BOX



3/8" MPT STRAIGHT TUB
FITS 3 GAL PLANTERS
OCTOBER 2018

25 BOX: EZFIT3/8BSTR25BOX



1/2" MPT TUB TEE W/ 1" PVC
FITS 10 GAL PLANTERS
OCTOBER 2018

25 BOX: EZFIT3/8PVCT25BOX



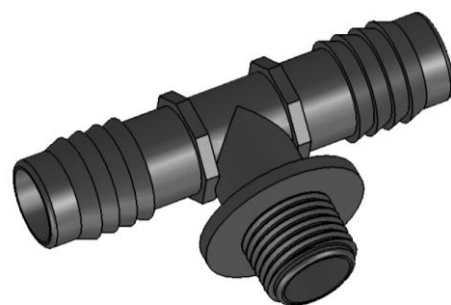
FPT 1/2" W/ 1" PVC
FITS 10 GAL PLANTERS
OCTOBER 2018

25 BOX: EZFIT1/2FPVCTIND



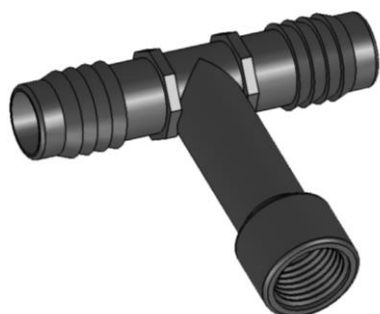
1/2" MPT 90° TUB FITTING
W/ 1/2" MPT OR 3/4" BARB
FITS 10 GAL PLANTERS
OCTOBER 2018

25 BOX: EZFIT1/2BELB25BOX



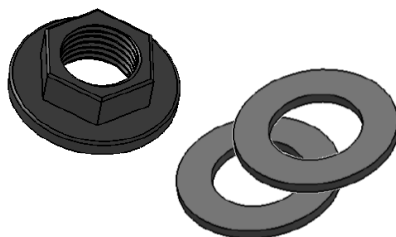
1/2" MPT TUB OUTLET TEE
FITS 10 GAL PLANTERS
OCTOBER 2018

25 BOX: EZFIT1/2TUBBT25BOX



1/2" FPT BARB TEE FITTING
FITS 3-GAL & 10-GAL
PLANTERS
OCTOBER 2018

25 BOX: EZFIT1/2FX3/4BT25BOX



1/2" NPT NUT W/ 2 WASHERS
FITS 10 GAL PLANTERS
OCTOBER 2018



6 WAY REDUCING
CONNECTOR 3/4" TO 1/4"
OCTOBER 2018



Danner Inline/Submersible Pump 530
GPH (10 Gallon System) & Danner
Inline/Submersible Pump 200 GPH (1.2
and 3 Gallon System)
OCTOBER 2018



3/4" FDA Approved
PVC Hose 25ft
OCTOBER 2018



1/2" FDA Approved
PVC Hose 25ft
OCTOBER 2018



1/4" FDA Approved
PVC Hose 25ft
OCTOBER 2018

COMPANY DIRECTORY

We are a People's People Company. What does that mean? Anytime you need help we are here for you. No hiding behind 1-800 numbers and a maze of extensions. If you need something feel free to give us a call at our personal cell phones and we will be glad to assist you.



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THE BUCKET COMPANY™ STORY

With over 35 years of combined agricultural experience, our company was built by a group of friends whose mission is to make growing fun and easy while **Maximizing your Profits**. After years of back breaking work, we decided to work smarter and grow BIGGER! Our motto “Why grow plants when you can grow TREE’S?” comes not only from our positive beliefs but also from years of consistent results.

We are a Family Owned Company who believes in giving back to the community and several non-profit organizations who improve the quality of life for those around us.

We currently employ veterans and our products are proudly made and/or packaged in the U.S.A.

Learn more at www.thebucketcompany.com

MADE WITH





THE Bucket⁺Company

Mailing Address:
The Bucket Company™
P.O. Box 560989
Miami, FL 33256
www.thebucketcompany.com

Manufacturing/Shipping Address:
The Bucket Company™
315 S. West Street
Lebanon, OH 45036
(786) 473-6484