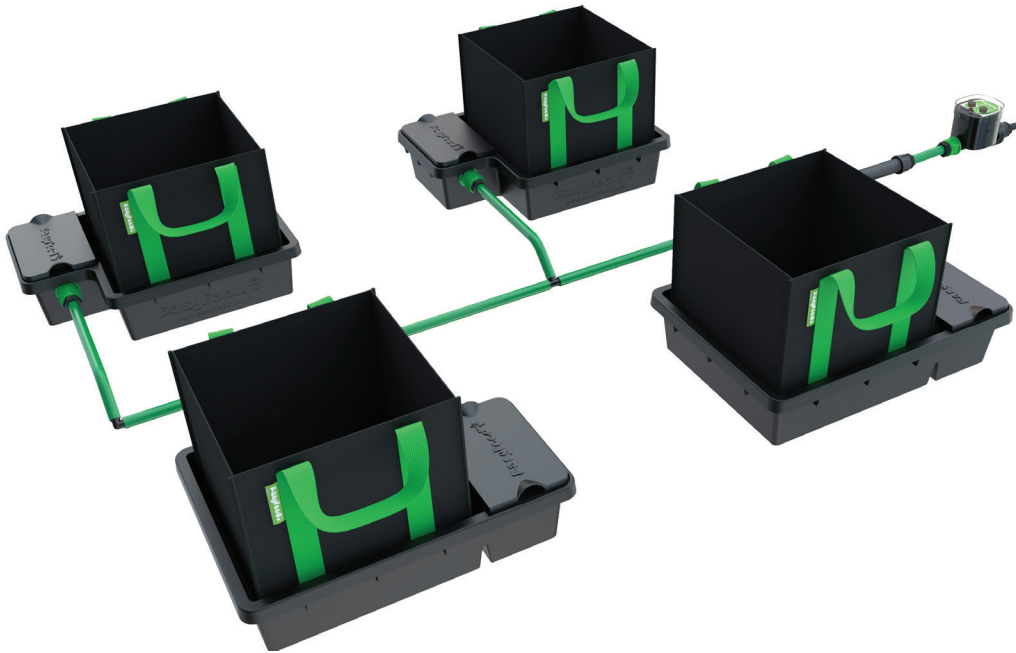


EasyFeed®



SET-UP INSTRUCTIONS

EasyFeed Designed and manufactured by

ALIEN®
THE EVOLUTION OF HYDROPONICS

Distributed in North America by



BLACK DOG
Horticulture Technologies & Consulting

WELCOME TO EASYFEED

Thank you for purchasing an ALIEN HYDROPONICS EASYFEED KIT!

Please check to ensure that you received all parts listed on your kit's packing list in good order. Pictures of the parts are shown on page 2 of these instructions to help you determine what the parts look like.

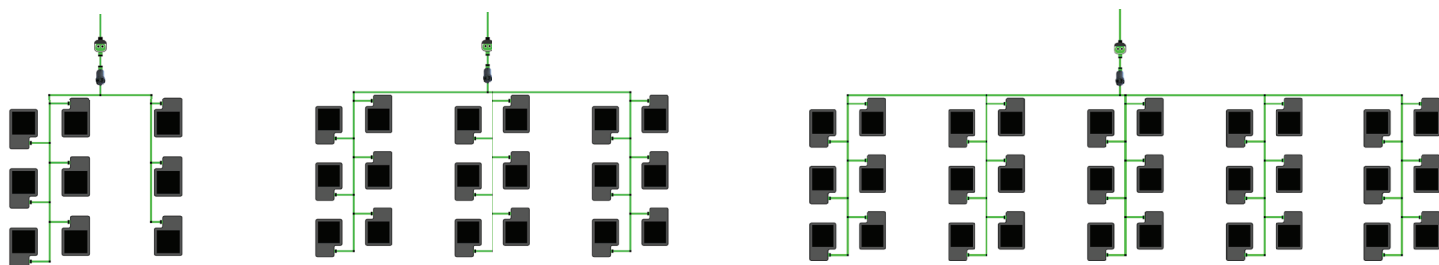
This kit assembles without needing to glue any pipe or fittings, enabling the fastest set-up time and ease of reconfiguring the system later.

Please note: EasyFeed kits come in 4 available pot sizes: 2.5 gallon / 10L, 4 gallon / 16 liter, 6 gallon / 22L or 8 gallon / 30 liter pots. To best fit the plant sizes that these pots can grow, the allowed plant / pot spacing with the pipe supplied with your kit depends on the pot size. Please pay attention to the maximum tray spacings allowed based on the pot size for the kit you received. You can also purchase more pipe and / or tray modules to expand your EasyFeed system to any size and configuration you wish.

Before you begin the installation of the ALIEN® EasyFeed system, consider the kit plant / pot spacings which best suit your grow layout. The ALIEN Kit Configurator on our website can help determine how your kit can be configured to best fit your growing area:

<https://www.AlienHydro.com/setup>

3-10 row EasyFeed kits with more than 2 pots per row come with enough pipe to create an aisle between rows so that you can easily access all of your plants throughout the growing cycle. If your space allows, we highly recommend incorporating aisles in your layout so you never have to reach over one plant to access another.



Reservoir Tank

Unless you are connecting directly to a hose faucet, EasyFeed systems require a reservoir or tank (**not included with EasyFeed kits!**) to hold the nutrient solution that will be distributed to the plants. The ideal size of the tank depends on how frequently you wish to change nutrients and / or refill the tank. ALIEN offers collapsible reservoir tanks:

<https://www.AlienHydro.com/tanks>

**If you have any questions or issues,
contact our technical team for advice:**

<https://alienhydro.com/contact>

sales@alienhydro.com

720-420-1209

PART DESCRIPTIONS



Large Tray



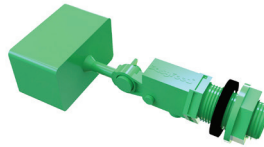
Small Tray



Tray Lid



**Hosetail 16mm - 3/4"
Female Green**



Float Valve



**Wrench for
Float Valve**



Fabric Pot 10L



Fabric Pot 16L



Fabric Pot 22L



Fabric Pot 30L



16mm Elbow



16mm Tee



16mm Green Pipe



**EasyFeed Water
Timer**



3/4" Filter

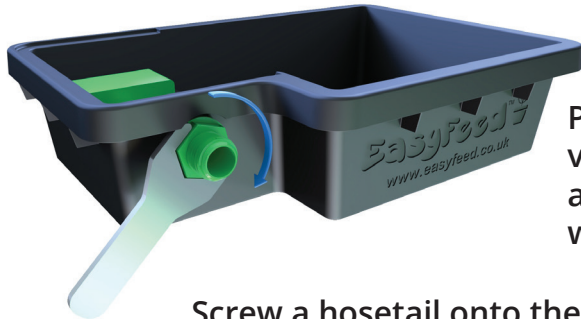
**All possible parts are shown for reference only-
No EasyFeed kit comes with or uses all of the parts above!**



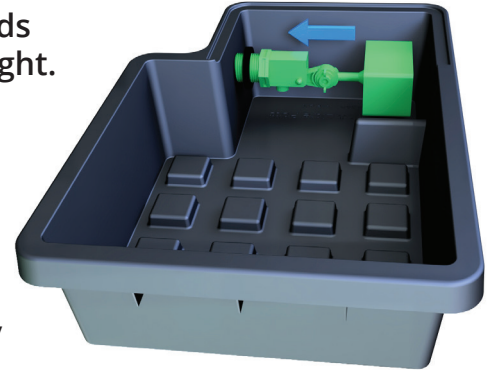
1 Fit the float valves into the trays.

Unscrew the nut from the float valve, keeping the rubber washer on the float valve's threads.

With the rubber washer on the inside of the tray, slide the threads of the float valve through the hole in the tray, as shown to the right. Position so that the rectangular float is free to pivot down.



Place the nut on the float valve's threads outside the tray and tighten with the supplied wrench, as shown to the left.



Screw a hoesail onto the float valve's threads and tighten by hand, as shown below.

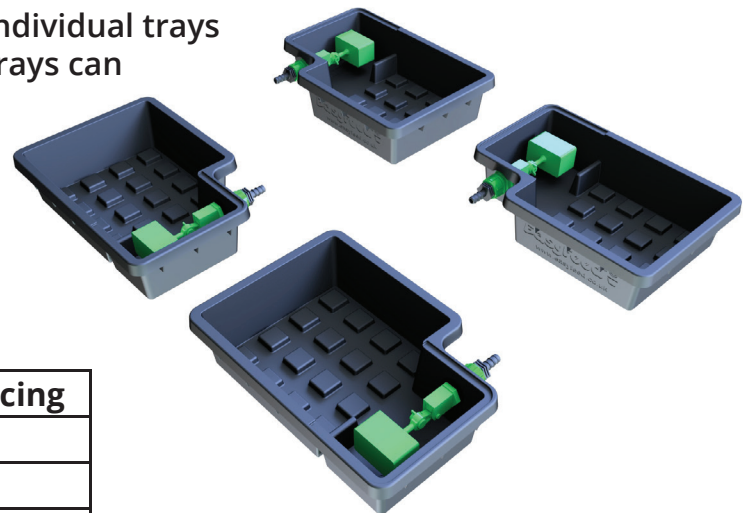


Hoesail



2 Position the trays in your desired locations. Individual trays should be placed on a level surface, but the trays can be placed at different levels, so long as they are below the water tank level.

Depending on your kit's pot size, it comes with enough pipe to make the maximum distance between the center of each tray along each row and between rows:



Kit Pot Size	Maximum Kit Tray Center Spacing
2.5 gal / 10L	20" / 50cm
4 gal / 16L	24" / 61cm
6 gal / 22L	30" / 76cm
8 gal / 30L	36" / 91cm

For kits with 3 or more rows and 3 or more pots per row, the kit also comes with enough pipe to create a 39" / 100cm aisle between every 2nd row.

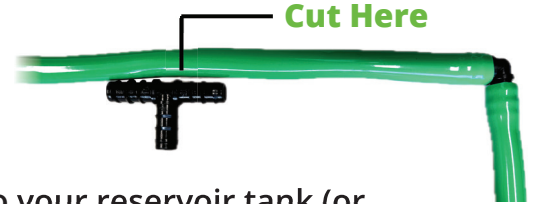
If you wish to place the trays / plants farther apart, simply purchase more 16mm green pipe from our website- EasyFeed provides the ultimate in layout flexibility!

3 Tips for working with EasyFeed's flexible pipe:

Measure the exact length you need by:

1. Slide one end of your "bulk" pipe onto the barbs of the first fitting you want to connect.
2. Lay out the pipe to where you want to put the next fitting.
3. Not forgetting to cut it long enough to go over the barbs of the next fitting, cut it to length.
4. Push the barbs of the next fitting into the end of the pipe.

Warming the end of the pipe in hot water makes it more flexible and easier to slide onto the barbed connections.

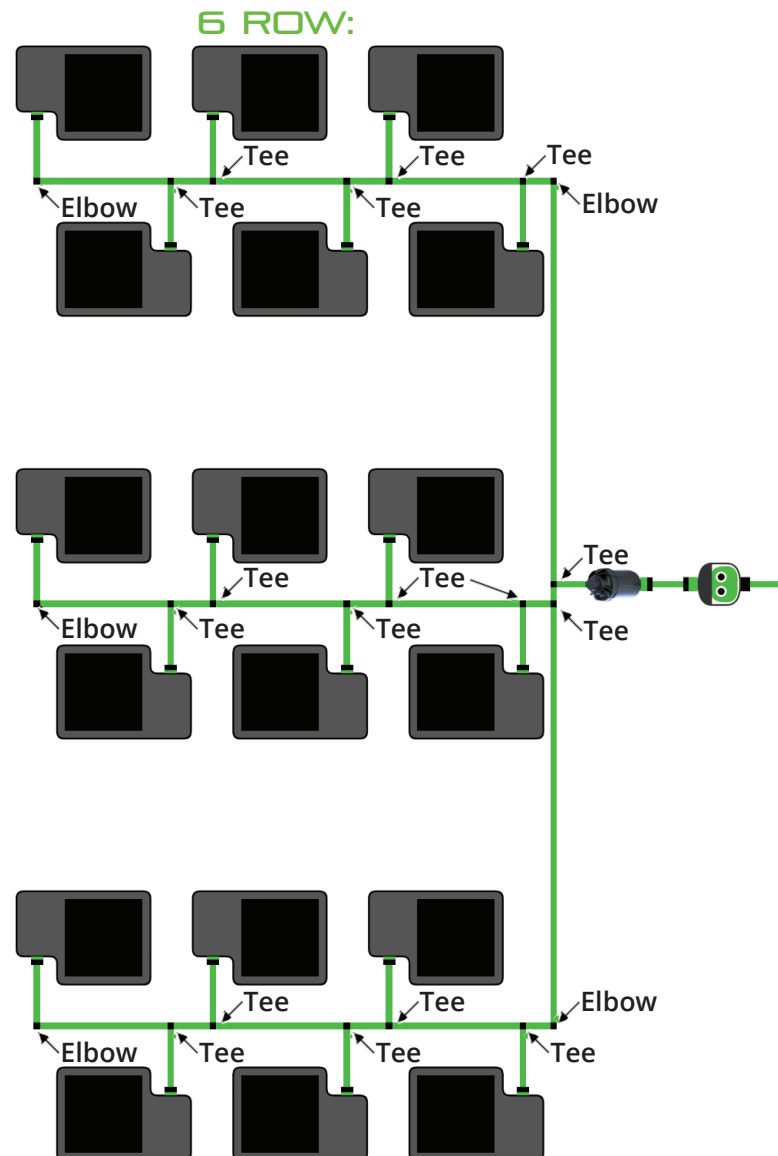
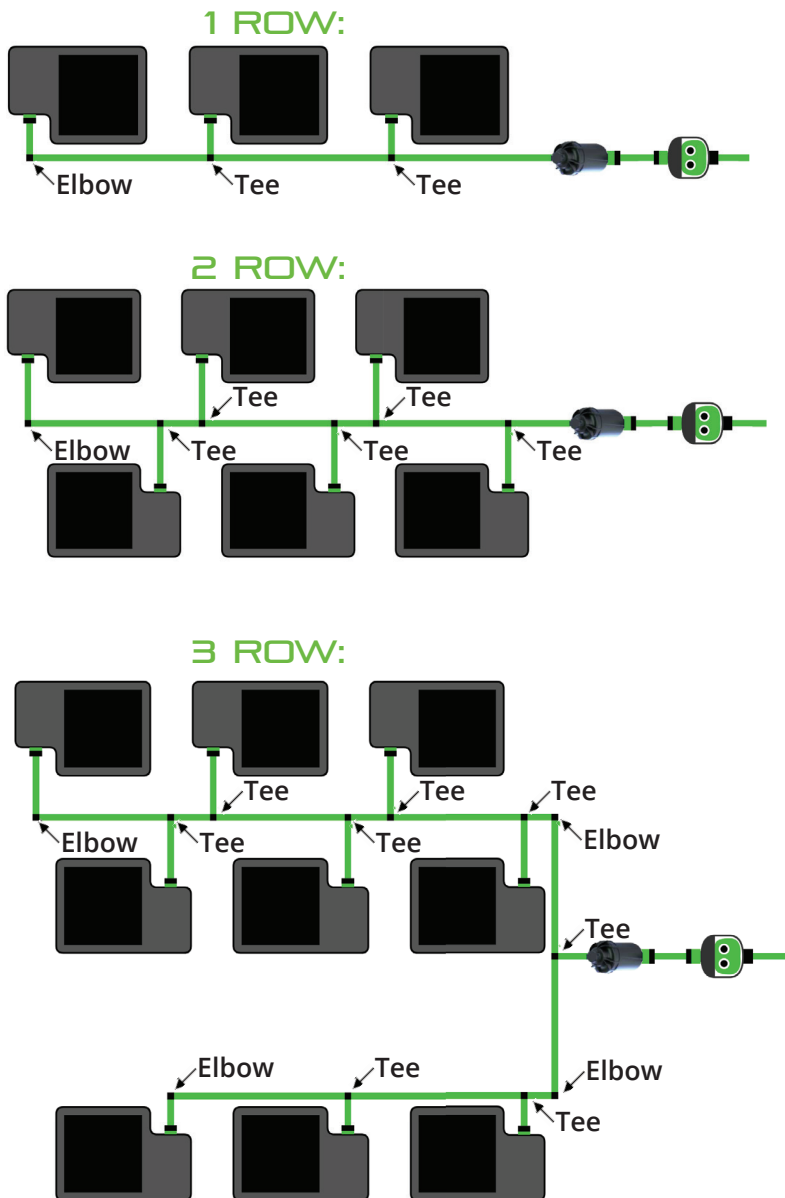


- 4 Cut a piece of pipe to attach the EasyFeed Water Timer to your reservoir tank (or hose faucet) and attach. Screw a hoesail onto the other end of the timer.

Screw hoesails onto the threads on both sides of the filter, and attach it to the timer with pipe. The filter and timer should be installed so that the water flows through in the correct direction, as shown.



- 5 Use 16mm tees, elbows and pipe to connect all the trays to the filter.



6 Place the tray lids over each tray's float valve.

7 Put 2 good-quality AAA batteries into the timer's battery holder, accessed by pulling up on the black finger slot under the clear lid.

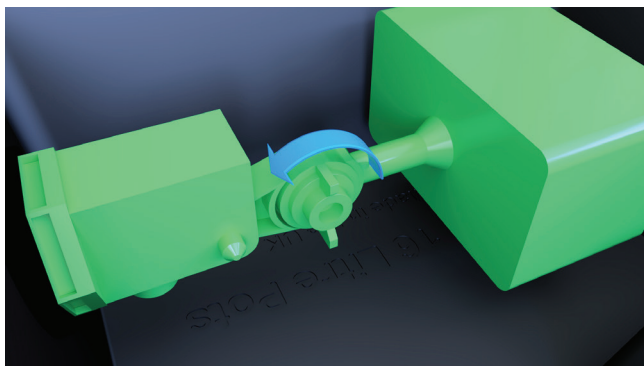


SYSTEM OPERATION



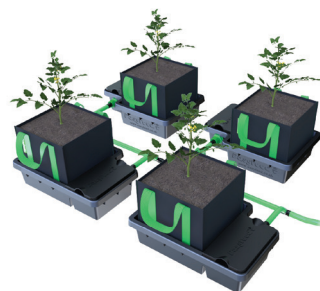
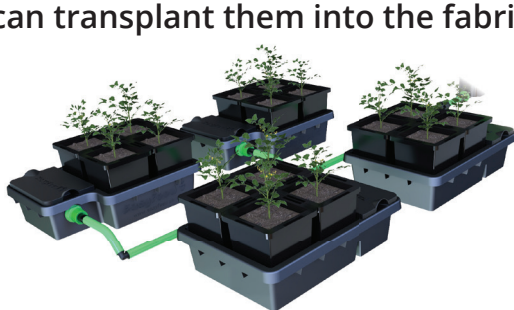
Adjustable Float Valves

The float valves are adjustable so you can choose the flood height of the water in each tray, for example if you have different size plants in the same system you can lower the valves for trays with smaller plants so they receive less water at each feeding than the larger plants.



Establishing Small Plants

You can place several small pots in each EasyFeed tray to establish the roots; once they are ready you can transplant them into the fabric pots.



Fill the Tank / Reservoir

Fill the tank with water and add the required amount of nutrients. After the first feed, it may be helpful to top up the tank again as the first feeding often takes extra water.

Excessively cold water (less than 63 °F / 17 °C for most plants) can shock the plants' roots, so try to adjust the temperature of the water with warm water or allowing it to get to room temperature before using it for feeding.



SYSTEM OPERATION

Set Feeding Duration and Frequency

Select the run time by timing how long it takes for the system to flood by turning the “Run Time” knob on the timer to the “ON” position and see how long the system takes to fill. Use this as a guide for setting the run time. The system will take longer to flood if the tank is only half full as there is less water pressure.

Tip: Raising the water tank will give better pressure and will fill the system faster.

Now set the frequency of your desired watering cycles. For young plants you may only need to water them once every 3 days to start, and as the roots establish themselves in the fabric pots and the plants grow you may want to water them every 24 hours. Large plants in a hot grow room may need watering every 6 hours- it really depends on plant size, growing medium and environmental conditions, so monitor and adjust as needed.

Once the frequency is set, the battery light will flash once to acknowledge the setting.

For best growth, allow the medium to partially dry between watering cycles. You can feel the sides of the fabric pots to determine the moisture content of the medium. Once you become familiar with your plants’ watering needs you can finely tune the watering schedule.

Water will not flow through the water timer until it is activated. If you want to flood your trays now, you can set the run time to “ON”, and once the trays are filled you can set the run time for the next watering cycle.

If you want your plants to be watered at a particular time, for example 4pm, you can set the frequency from the reset position to 24 hours at 4pm today; the system will flood at 4pm tomorrow and every day after.

Tip: As a rough guide, the small trays (for 10L and 16L pots) each take around 1/3 gallon or 1.5L of water every time it floods. The large trays (for 22L and 30L pots) each take around 1/2 gallon or 2L. This varies depending on the float valve settings.



Maintenance

The water filter should be cleaned every week. If you use organic nutrients or additives, the filter may need more frequent cleaning. Unscrew the lid of the filter and remove the mesh cartridge for cleaning. A toothbrush may be helpful to clean the mesh under running water.

Refill the tank with water and nutrients as needed.

The water timer has a battery warning light that will stay on if the battery power is running low. We recommend changing the batteries after 3 months to be certain, although they can last for much longer depending on use.





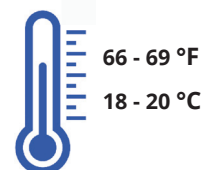
Planting Into the System

Fill the fabric pots with an absorbent planting medium, transplant a plant into each pot, then place the pot in the tray. If you do not perform an initial top-watering during transplanting to settle the medium, it is recommended that you check on each pot a day after transplanting and add more medium as necessary, as the potting medium has a tendency to settle once it gets wet.

Tip: If you have not used fabric pots before, their “floppy” nature can cause issues when filling the pot with planting medium. Holding the side of the pot up and taught as you fill and compact the medium will ensure you don’t end up with voids or “lumpy” pots.

Reservoir Tank Chiller

Especially if you are using organic nutrients or additives, using a water chiller for the tank / reservoir will help suppress the growth of bacteria and fungi in the nutrients. Maintaining 66-69 °F or 18-20 °C will keep the water at an ideal temperature for the plants’ roots while slowing microbial growth.



Use a submersible pump in the bottom of the tank / reservoir to circulate the water through an external chiller, or use a submersible chiller. The chiller only needs to be sized to the volume of the tank, not the entire EasyFeed system.

ALIEN North America offers chillers and chiller hook-up kits for reservoir tanks; contact us for details or if you have any questions about chiller sizing or deployment.

Cleaning Between Crops

At the end of a crop cycle, the fabric pots can be washed and re-used or discarded and replaced.

Trays should be cleaned between each crop cycle; they can be detached from the pipe manifold by unscrewing the hosetail from the float valve, but be certain that the water timer is off before disconnecting trays! Wipe trays with a soft non-abrasive cloth and rinse.

With the trays empty, the tank can also be filled with a mild disinfectant solution and the trays flooded to clean the pipes; rinse with fresh water before using again.

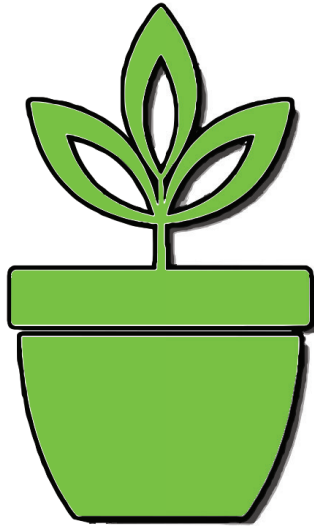


SYSTEM EXPANSION

Expansion tray modules are available on our website and are easy to add to your EasyFeed system at any time. You can mix-and-match different pot sizes on the same system to best fit your needs.

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720-420-1209

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<https://www.alienhydro.com/contact>

Don't forget to check
us out on social media:
@alienhydro

