



Designed, manufactured and distributed by



PART DESCRIPTIONS



Net Pot



Lid cover



Lid



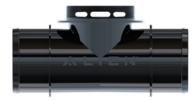
V-POT



Base



5 Inch Clamp



Dual-Flow Tee



Dual-Flow Elbow



5" Silicone Washer



5" Nut



5" Tee



5" Elbow

Chiller Fittings



Header Lid



Header Blank



Header Pot



32mm, 40mm Tank connectors.



Float Valve



Venturi





INSTRUCTION MANUAL

Before you begin the installation of the ALIEN® V-SYSTEM, consider the plant spacings which best suit your grow room layout.

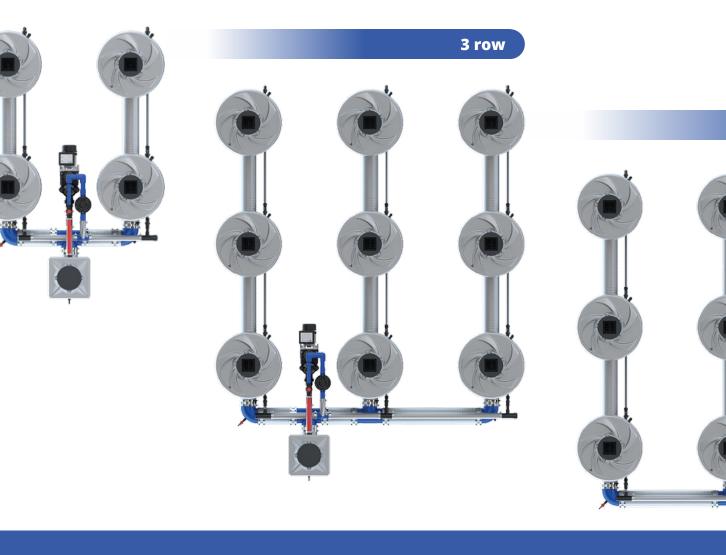
The V-SYSTEM uses spiral tubing which gives the grower some versatility on the layout and header pot position. The standard configuration is shown in Fg 1 with the header outside of the footprint. Fg 2 is with the header inside and requires 100cm centres to allow the header pot to fit between the pots. 65cm plant centres require Fg 3 configuration. The maximum centres with the supplied pipe are 100cm and a full length of 80cm pipe is used to achieve this. Larger plant centres are possible with special order lengths of 5" pipe.



Up To 80cm (Full Length)









CONFIGURATIONS

5 rows + set ups are possible. Contact our tech team for advice. tech@alienhydroponics.co.uk

SYSTEM SET-UP



Position the black Dual-Flow tee's & elbows where you would like the plants to be.





B





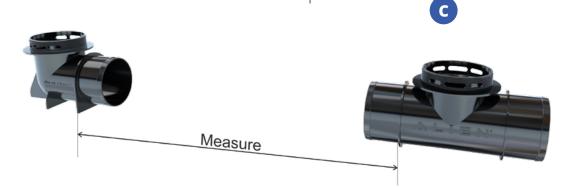
A 190mm

B 315mm (If the header pot is located outside of space)

C 700mm (If the header pot is located inside)

3 Once you are confident that the system will fit in the space measure the distance between the flanges and cut the 5" pipe using the pipe cutters. (Take care as the blade is very sharp)

Α



Slide a 5" clamp over the pipe. Use hot soapy water to warm the pipe then push on to the fitting all the way to the flange. Use the 8mm socket screwdriver or electric drill attachment to tighten the clamp. (ensure the nuts are located to the side as shown)

(4)







PIPE LENGTH GUIDE

This table shows the tube lengths for the most common plant centres.

Tube	75cm	100cm	Header tube	E
А	55cm	80cm	Minimum	15cm
В	23cm	23cm	Willington	ischi
C	20cm	32cm	Maximum	80cm
D	55cm	80cm	Maximum	o con
D 55cm 80cm MMMMM Column Position the blue 5" fittings to make the manifold. The drain outlets on the elbows should be at the bottom. Once you're sure the system spacings are correct, cut and fit the 5" tube. If you are using either a 4 pot system in a 1.5x1.5m tent or a 16 pot system in a 3.5x1.5m tent or a 16 pot system in a 3.5x1.5m tent or a 16 pot system in a 3.5x1 tent reduce the plant center's marked 'A' from 75cm to 70cm to allow space for the manifold. If you are using either a 4 pot system in a 3.5x1 tent reduce the plant center's marked 'A' from 75cm to 70cm to allow space If you are using either a 4 pot system in a 3.5x1 tent reduce the plant center's marked 'A' from 75cm to 70cm to allow space If you are using either a 4 pot system in a 3.5x1 tent reduce the plant center's marked 'A' from 75cm to 70cm to allow space If you are using either a 4 pot system in a 3.5x1 tent reduce the plant center's marked 'A' from 75cm to 70cm to allow space If you are using either a 4 pot system in a 3.5x1 tent reduce the plant center's marked 'A' from 75cm to 70cm to allow space If you are using either a 4 pot system in a 3.5x1 tent reduce the plant center's marked 'A' from 75cm to 70cm to allow space If you are using either a 4 pot system in a 3.5x1 tent reduce the plant center's marked 'A' from 75cm to 70cm to allow space If you are using either a 4 pot system in a 3.5x1 tent reduce the plant center's marked 'A' from 75cm to 70cm to allow space If you are using either a 4 pot system in a 3.5x1 tent reduce the plant center's marked 'A' from 75cm to 70cm to allow space If you are using either a 4 pot system in a 3.5x1 tent reduce the plant center's marked 'A' from 75cm to 70cm to allow space If you are using either a 4 pot system in a 4 pot system in a 4 pot system in				

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Position the stands as shown and place a green washer on each fitting.



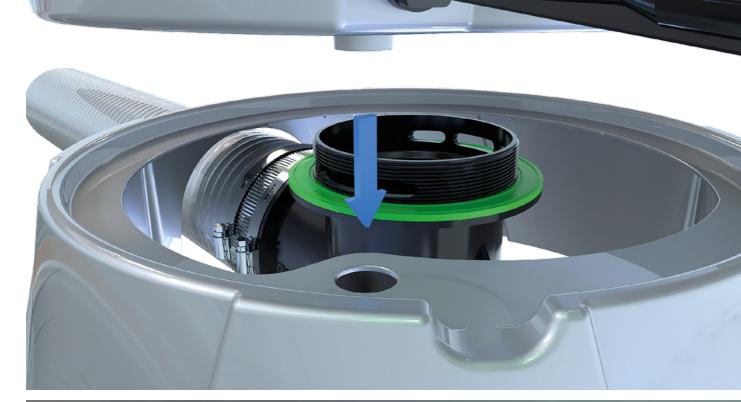
VENTURI INSTALLATION



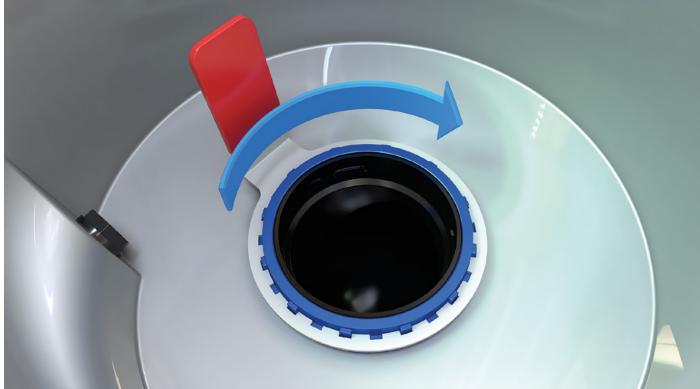


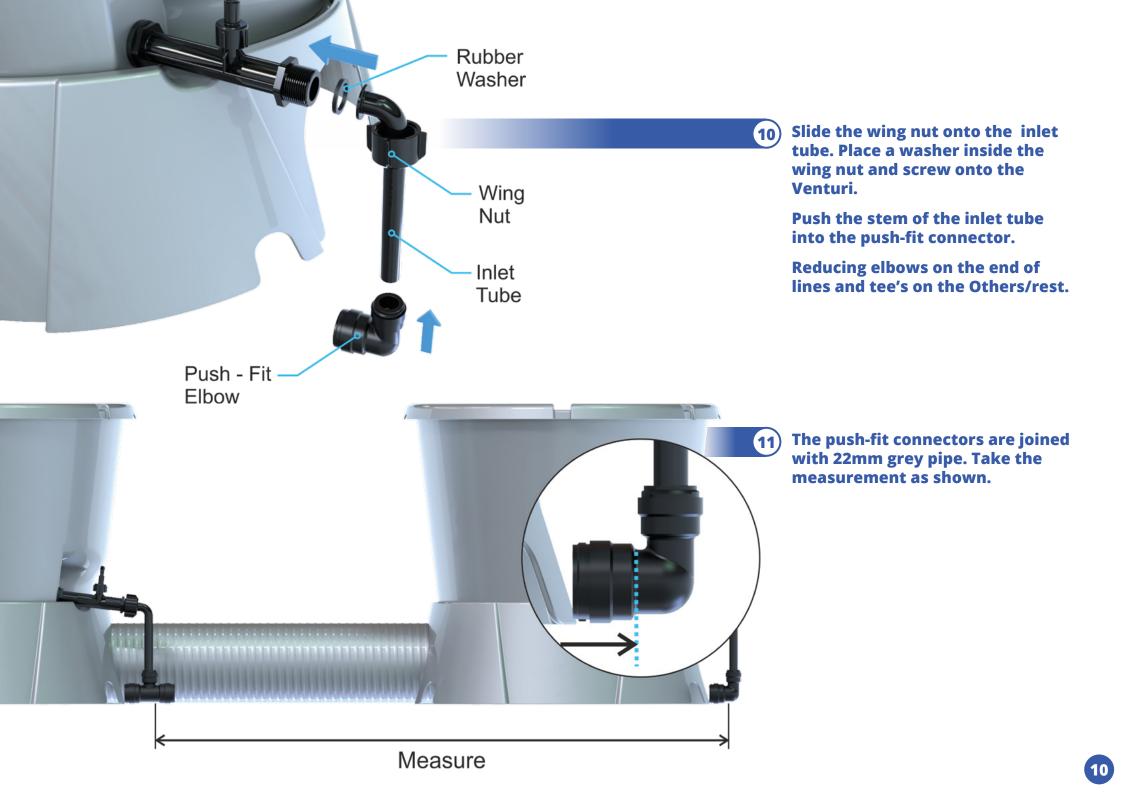
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Put the pots on the stands using the locating hole in the base.

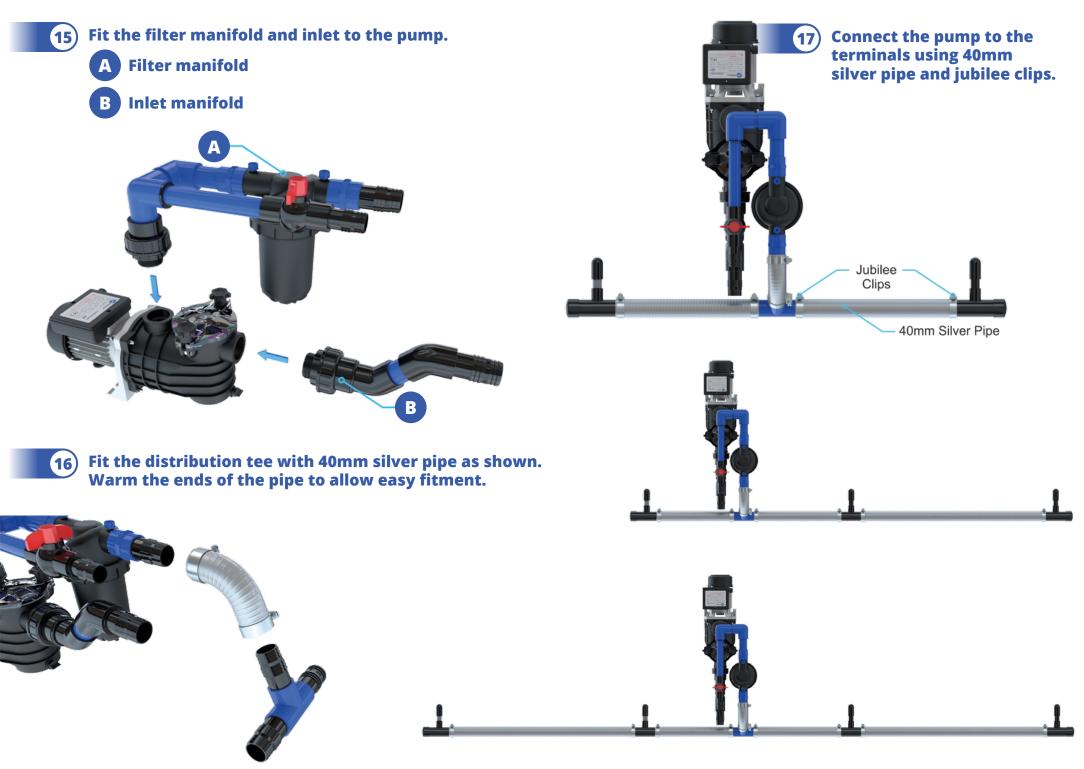


Screw the blue 5" nuts on and tighten with the spanner Provided.



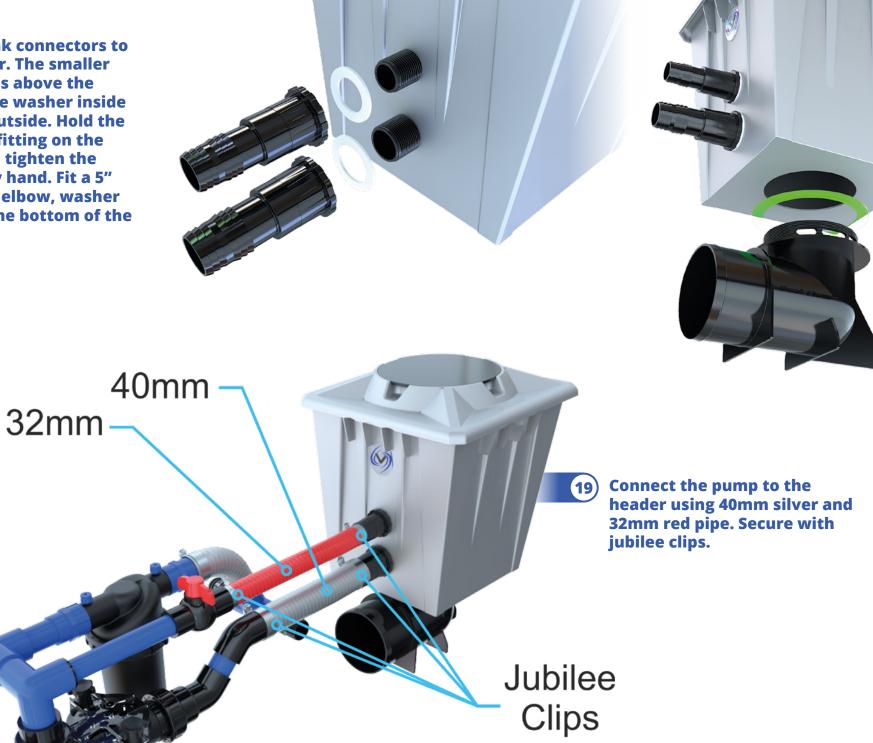








Fit the tank connectors to the header. The smaller 32mm goes above the 40mm. One washer inside and one outside. Hold the threaded fitting on the inside and tighten the outside by hand. Fit a 5" **Dual-Flow elbow, washer** & nut to the bottom of the pot.



OXYGEN SOURCE OPTIONS

Standard set-up (parts included)







External source set-up (extra parts required)

The Venturi air inlets can be connected together with 6mm blue tee's and 16mm silver pipe. This will allow can air in from an external source. This could be simply from outside of the grow room or the pipes can be run directly to an air conditioning unit which would mix cool air with the nutrient solution which could potentially mean that a water chiller is not required. Example on next page.



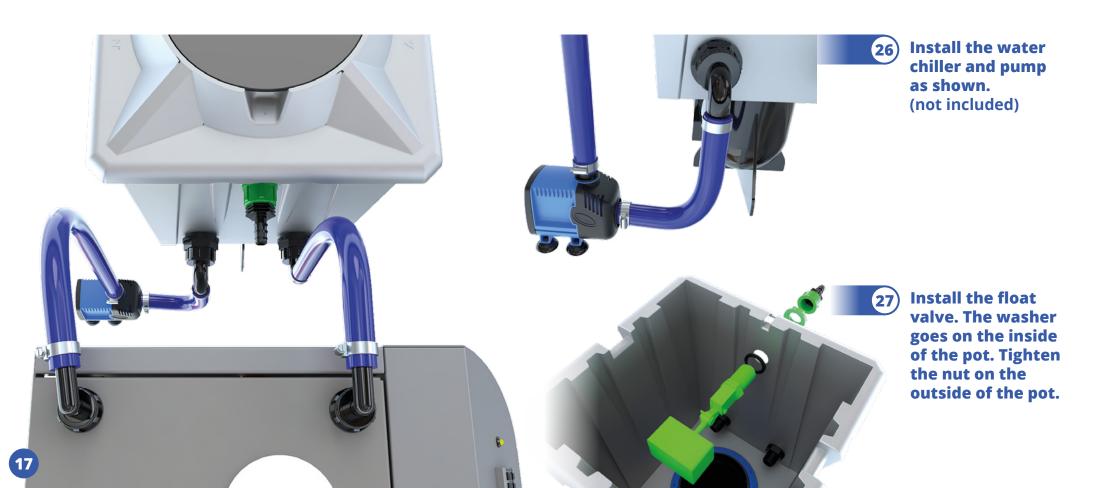




Install the threaded chiller fittings & washers from the outside.

Tighten the nut on the inside with the spanner provided.

If a water chiller is being used, screw the elbows on to the thread with a white washer on the inside. If a water chiller is not being installed simply fit the caps provided. They can be fitted to the inside or outside.



FILLING THE SYSTEM



The system is ready to fill with water. Double check that the nuts on all pots, Venturi's and jubilee clips are tight.

- Loosen the pump filter lid. This will let the air escape as the system fills.
- **2** When the water reaches the top and begins to over-flow, tighten the lid.
- 3 Fill the system until the water reaches the fill line marked on the inside of the pots.



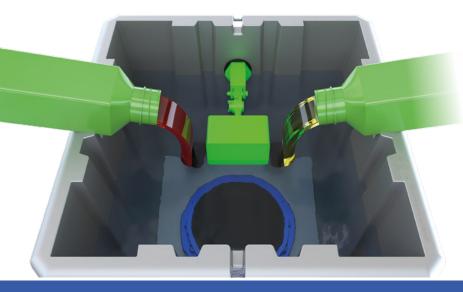
If the plants you are transplanting into the system have zero roots protruding the net pot, fill 2cm above the 'fill line' to avoid the plant roots from dehydrating.

The float valve is adjustable to allow the set fill level to be maintained.



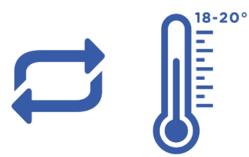


ADDING NUTRIENTS



This can be done by pouring equal amounts of A&B into the header. This will immediately mix in the water pump and be distributed to each pot simultaneously. If plants are present in the system add the concentrated nutrients slowly to avoid shock.

Let the system recirculate for some time before taking a reading. Adjust accordingly. Do the same for PH down. Ideally let the system recirculate overnight to allow the water to reach a habitable temperature for the plants. Cold water can shock plants.



PLANTING INTO THE SYSTEM



Put a layer of substrate into the bottom of the net pot level with the raised grid.





Water the cutting before transplanting. Place the rooted cutting into the pot.

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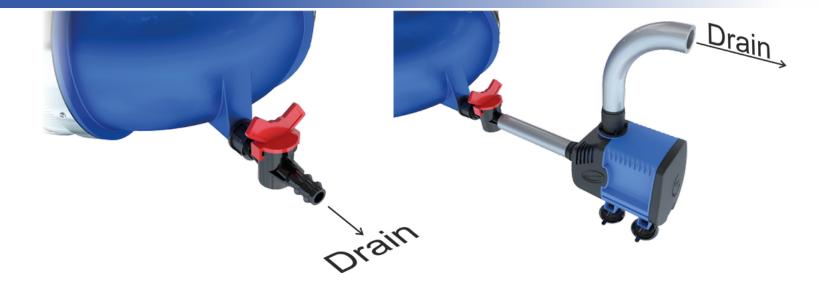
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Fill the remaining void with substrate.



NUTRIENT CHANGE-OUTS

The nutrient solution should be drained and replaced Every 7-10 days. The drain tap can be opened to allow gravity to drain down or a water pump can be connected.



ROOT ROT X

Fill the system with Ph'd water only and dose with **Root Rot X**. Allow the system to recirculate for 3-12hrs. This process can be done at the end of a light cycle to allow the system to recirculate overnight with Root Rot X. This will dissolve any biofilm present on the inside of pots, pipes, fittings and filters and also sterilise the roots to help prevent disease. This process is important to keep the system and Venturi's performing at their best.



ALIEN

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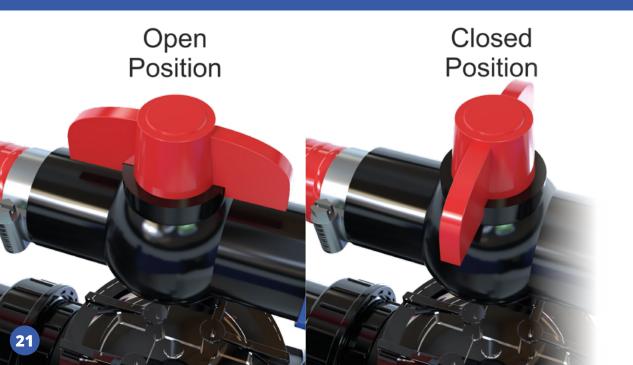
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FILTER CLEANING



The water pump has a basket filter which catches larger debris. The secondary in-line filter has a fine mesh filter to remove smaller debris and organic matter. Both filters should be checked and cleaned when the system is empty, ideally when performing a nutrient change.

PRESSURE RELEASE VALVE



The fully closed position will provide maximum pressure to the Venturi's. Slightly or fully opening the valve will reduce pressure and also decrease the sound of the aeration inside the pots.

TOP UP TANKS



The system can be used without a tank but will require regular top ups in the flowering stage. The float valve in the header pot can be connected to any tank or water butt to maintain fluid levels. The tank should be raised to allow gravity to delivery the nutrient solution to the header pot. A CAMO[®] Tank can be used however there is no stand available for it (illustration only). The water butt and conical tank shown are examples and are not supplied by ALIEN[®]. The system itself holds a lot of water so a tank probably won't be necessary for small plants in the vegetative stage.



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