

Titan 2 BudBox Basic Kit - Instructions



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Overview

Thank you for purchasing the Titan2 BudBox Basic Kit. You can now look forward to enjoying the benefits of a first class grow tent with matching lighting and extraction systems. Consider yourself several steps closer to guaranteed growing success!

Kit Information

Housing plants and equipment can often be the biggest problem associated with growing. Grow tents are the perfect solution to this and have fast become an essential item for keen indoor gardeners. These excellent innovations create an enclosed, manageable growing environment, providing protection for your plants and equipment as well as minimising light loss. No serious grower should be without one, which is why there's a top of the range Titan2 BudBox included in this kit!

Use of artificial light means your plants will grow faster, give you bigger blooms and yield more. A Budget Hobby Lighting System allows you to create your own private garden for year-round enjoyment without costing a fortune. No longer will you be dependent on the seasons when growing your favourite plants. Now you can even harvest in the darkest, coldest depths of winter... imagine that! Having precise control over your growing environment is fun, easy and rewarding - even someone who possesses limited gardening skills can expect to get excellent results with a little patience and effort.

Regularly replacing air in a grow room with one fan or more can have a surprisingly large and positive impact upon the final size and quality of crops. By combining a reliable RVK fan with the required carbon filter, you will create an effective extraction/filtration system which enables closer control of the grow environment. It provides a way of exhausting stale air, keeps temperatures cool for optimum growth and ensures that your plants receive a much needed regular supply of CO₂.

Where Can You Garden?

Your BudBox Basic Kit includes a Titan2 BudBox Grow Tent, which can comfortably accommodate your lighting, extraction and growing equipment. It enables you to create a room within a room and should therefore be located in an area indoors that is suitably big enough. A spare room would be ideal, likewise a garage or large loft - so long as ambient temperatures do not rise too high or fall too low.

When choosing an area to assemble your various systems in try to give yourself as much room as possible - this will make construction and maintenance far easier. Since your kit contents are stored within the Titan2 BudBox the minimum floor area needed must at least match the grow tents' dimensions of 240cm by 360cm with 200cm for head height. Extra height would be desirable though, for ventilation and ducting.

Additionally, always make sure your BudBox Grow Tent and various items of equipment are cleaned to start with, as well as after each crop. Doing so helps prevent infestations from pests and ensures all your systems continue to function properly.

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Kit Contents

1x	Titan2 BudBox Grow Tent
6x	400 Watt Budget Hobby Lighting System
1x	Exolux-Super 6 Timer Contactor
1x	RVK200A1
1x	4 metre lead c/w 13 amp plug
1x	BF800 Budget Carbon Filter
3x	200mm Quick Release Duct Clip
3x	200mm (8") Aluminium Ducting
	Jack Chain & S Hooks for hanging your light and filter

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Setting Up Your BudBox Grow Tent

BudBox grow tents are the ultimate self-contained growing environment. Your tent is made of a strong, flame retardant, 100% lightproof material and has numerous convenient features built-in such as intake/outtake holes for air extraction/filtration, a water catchment tray that guards against potential damages caused by spillages, and access ports for electrical cabling and irrigation pipework. A simple guide on how to set up your BudBox can be seen on this page, but each tent also comes with more detailed instructions from the manufacturer just in case you find yourself needing additional help.

1

Construct the frame of the tent, referring to the colour coded poles. Start by building the base, then add the upright poles and finish by fixing on the ceiling.

2

Spread the tent cover over the floor and unzip every zip. Afterwards find the bottom of the BudBox and gently ease the frame into this area.

3

Locate the ceiling of the BudBox tent cover and gently ease it over the ceiling of the frame.

4

Completed BudBox

Hold up the sides of the BudBox tent cover and zip them shut. Next insert the catchment tray, attaching it to the grow tent with the relevant Velcro tabs. You can now begin to fill your BudBox with equipment and plants.

bind here to create a convenient instructions file

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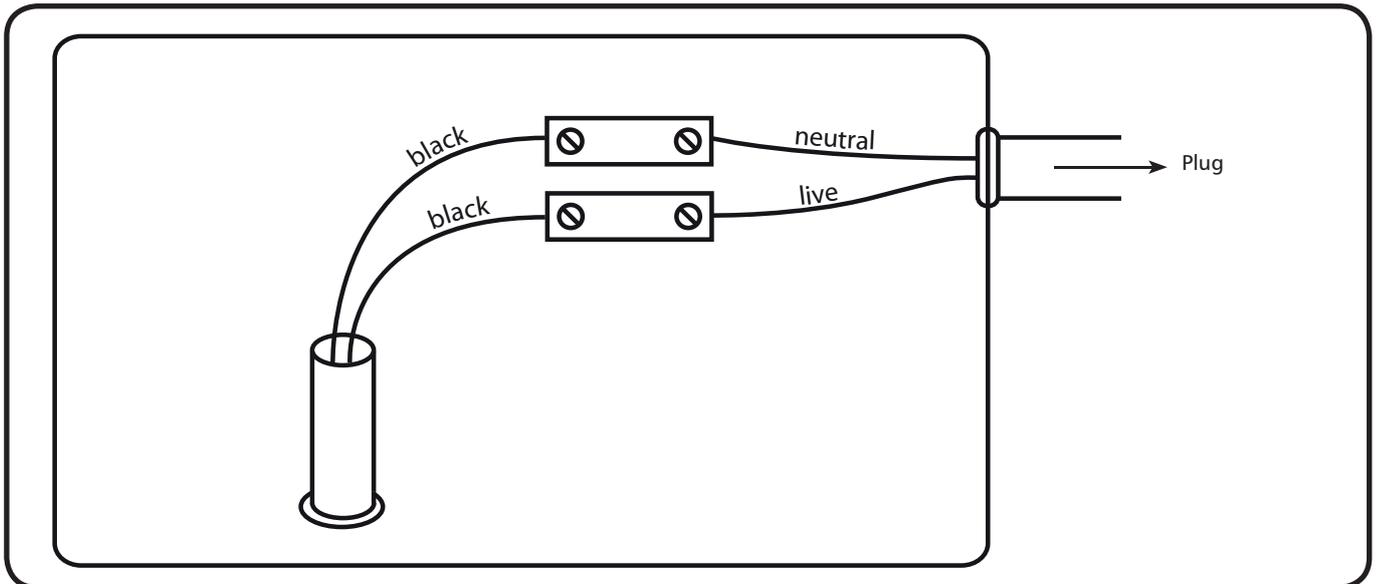
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Setting Up Your Extraction/Filtration System

Using one fan or more to regularly replace air in a grow room can have a surprisingly large and positive impact upon the final size and quality of crops. However, plants can sometimes produce unpleasant odours that you may want to prevent from spreading elsewhere and ultimately eradicate altogether. This is where a carbon filter comes in. You will find both a fan and filter included in your kit along with all the parts needed to create a very effective extraction/filtration system. Before you can begin putting your extraction/filtration kit together you must first do some simple wiring for your extraction fan.

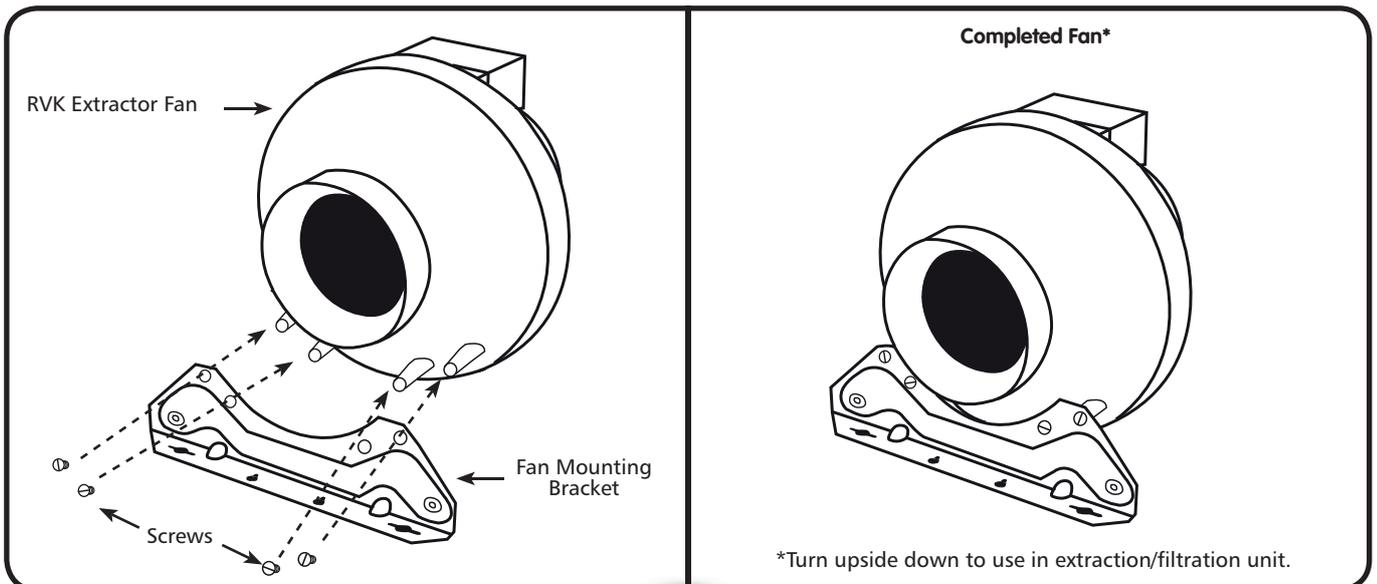
Wiring Your RVK Extraction Fan

Your RVK200A1 Extraction Fan has no exposed conductive parts, is double insulated and requires no earth connection. To wire it up using the supplied 4 metre lead follow the diagram below. 2 core cable is sufficient.



Attaching the Fan Mounting Bracket to Your RVK Extraction Fan

After wiring up your fan it's time to attach the mounting bracket with the four screws supplied. This will be what you hang part of the extraction/filtration unit from. Simply follow these two diagrams.



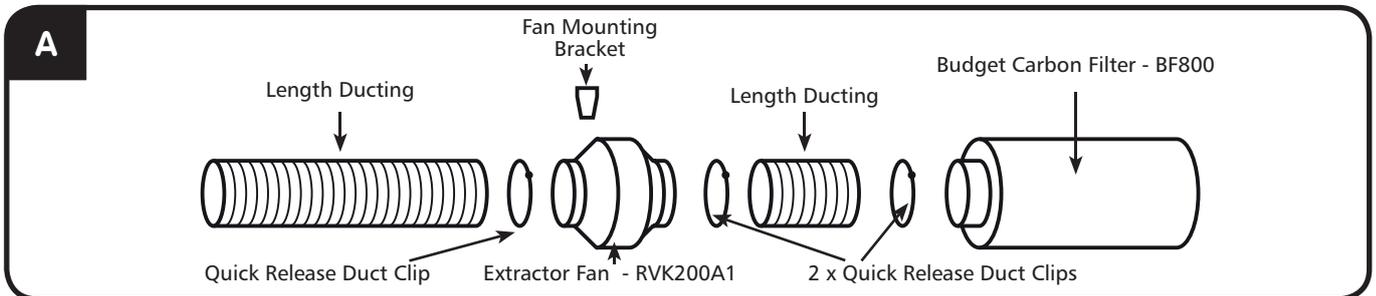
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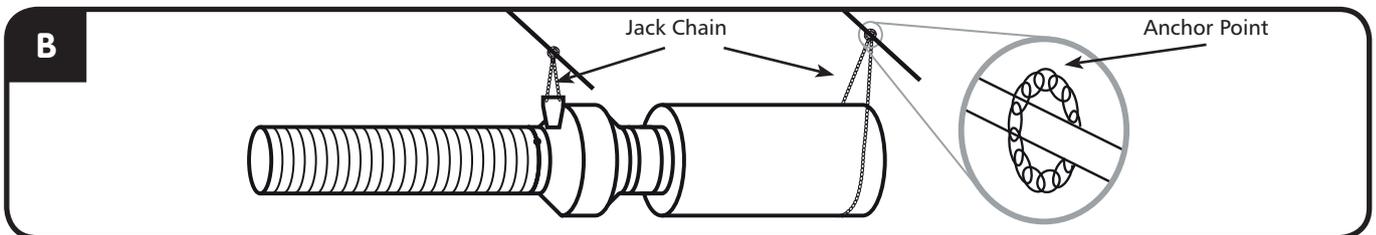
Putting Together and Hanging Your Extraction/Filtration System

With the fan now ready, you can set-up the extraction/filtration system. Although this is fairly straightforward, we do recommend that you take care when hanging your filter since it will be quite heavy.



A1. Connect the budget carbon filter to the fan using a piece of ducting and two quick release duct clips (placing one at either end of the ducting for a secure fit).

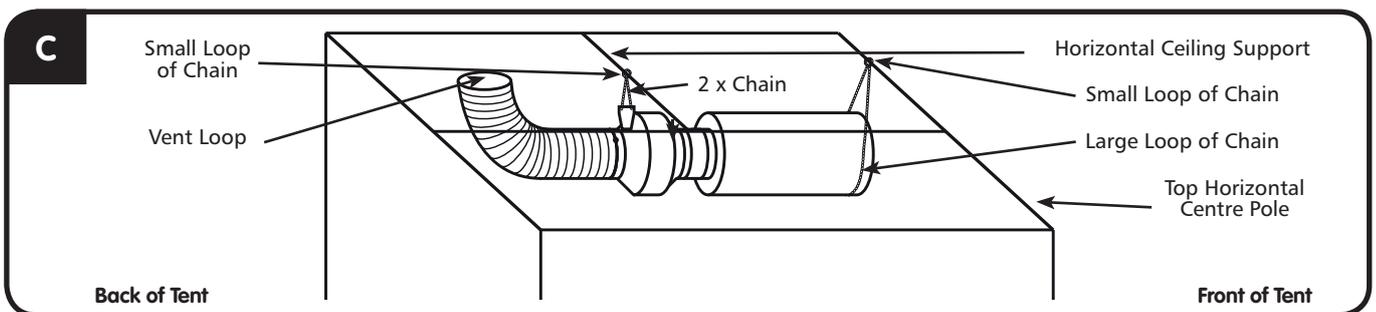
A2. Attach the necessary amount of remaining aluminium ducting to the other end of the fan using another quick release duct clip.



B1. Create two anchor points for hanging the extraction/filtration unit. Circle a small piece of chain around one of the appropriate BudBox ceiling poles/supports (see below for details) and then repeat.

B2. Loop a piece of chain around the carbon filter and attach this to the relevant anchor point by forcibly bending open one of the chain links with a pair of pliers.

B3. Bend and attach two pieces of chain to two of the holes on the wall mounting bracket of the fan, then connect each of them to the other anchor point in the same way as was done previously.



C1. Hang the carbon filter end of the extraction/filtration unit from the top horizontal ceiling pole at the front of the tent. (above example is in a smaller tent than the Titan but the same principles apply)

C2. Hang the fan-end of the extraction/filtration unit from the horizontal ceiling support.

Now all that needs to be done is for you to pull the end of the aluminium ducting through the vent port on the BudBox. At this point the extraction/filtration unit can be plugged in and eventually turned on.

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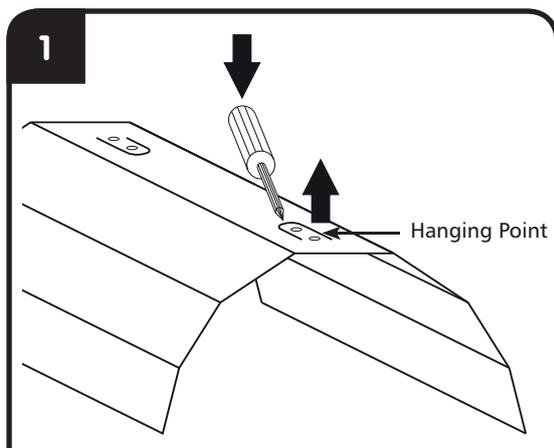
Setting Up and Running Your Light System

Your 400 Watt Budget Hobby Lighting Systems represent the very best that's available in terms of value. The main components of each system include the Budget Reflector, Hobby Control Gear and GroLux Lamp. This is a great combination that's capable of generating and spreading an incredible amount of light.

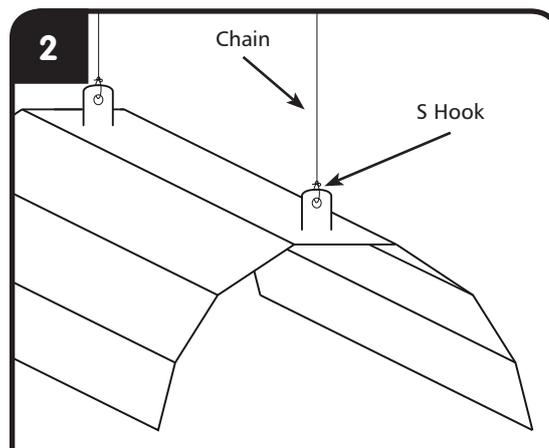
For the intensive cultivation of light loving plants, each 400 Watt light will cover an area of about 100cm x 100cm - perfect given the dimensions of your Titan2 BudBox (240cm x 360cm). It's OK to use your powerful Budget Hobby Lighting Systems when growing in an area as small as this, although it will be more demanding on you and your plants. However this is where your extraction/filtration unit shall take effect, removing the hot air generated by the light that might have otherwise proved a hindrance.

Hanging Your Reflector:

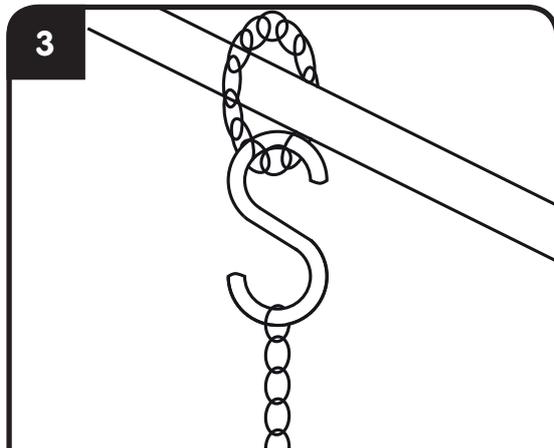
The first stage in setting up your light system involves hanging the reflector.



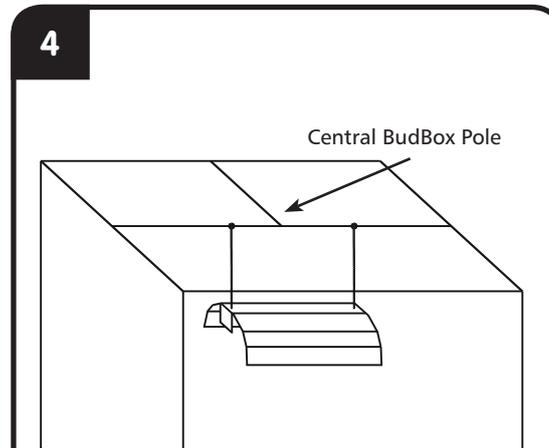
Bend each reflector hanging point into a suitable position (ideally vertical), using a screwdriver if required.



Thread an S Hook through the hole on one of the hanging points and attach chain to this. Now repeat for the second hanging point.



Circle a small piece of chain around the central BudBox ceiling pole. Do this again, to finish with two anchor points. Use an S Hook to connect one anchor point with the chain coming from one of the reflector hanging points. Repeat for the second anchor point.



Your first reflector should now be in place, resembling the above image (the example is in a smaller tent than the Titan2 but the same principles apply). Do exactly the same for all of your other reflectors.

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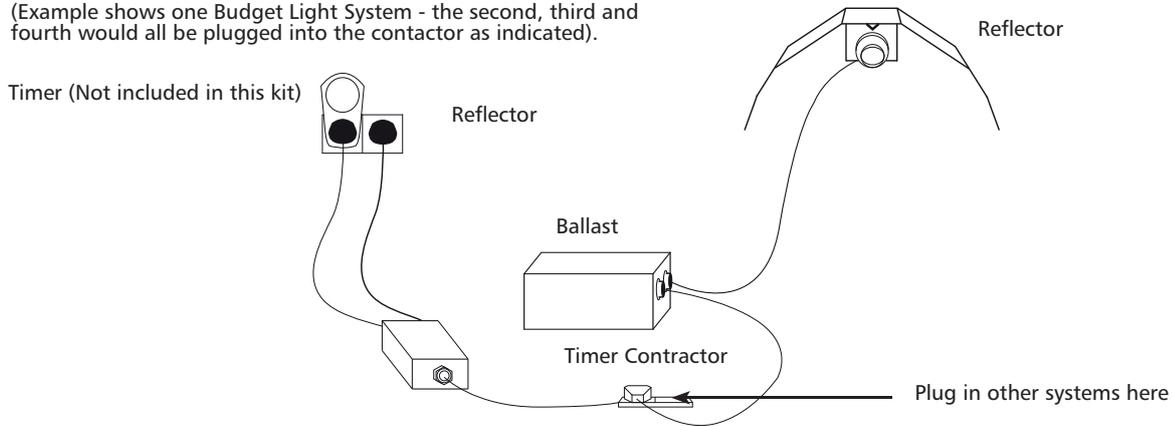
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Setting Up Your Light System

To set up your light system correctly we recommend that you refer to the diagram and instructions which feature next.

1. With your reflectors suspended in place, carefully screw the GroLux lamp into each lampholder making sure of a firm fit

(Example shows one Budget Light System - the second, third and fourth would all be plugged into the contactor as indicated).



2. Plug the lead coming from one of the reflectors into one of the ballasts, then repeat for the second, third and fourth systems
3. Plug the power leads coming from the ballasts into the output socket of the lighting contactor
4. Locate the 'input' lead coming from the contactor and plug it into the mains
5. Identify the 'Timer' lead coming from the contactor and plug it into a timer.
6. Select when you want the timer to switch on and off by adjusting its settings
7. Plug the timer into the mains.
8. Switch on the mains and then your ballasts when you are ready to start operating the light systems

Using a timer stops you from having to manually turn your grow lights on and off. It is an essential grow room tool used by most indoor gardeners and comes highly recommended by us

Running Your Light Systems - Lamp Heights

During propagation and transplanting each 400 Watt light should be 1.2m-1.5m (4'-5') above your plants, being adjusted when necessary to maintain preferred temperatures. Gradually the lights can be moved down, a couple of inches each week. If the plants are growing well after a week or two (maybe a few inches high), then move each light to about 90cm (3') away from the plant tops. The plants need to be strong and healthy – at least 45cm (18") tall - before the lights are closer than 60cm (2') away. You probably shouldn't get any closer than this at any stage of growth.

This is only a rough guide. Ideal lamp heights will vary depending on factors such as the type of plants you are growing. The main concern is preventing excessive heat generated by the lamps from damaging the plants (too hot: look for leaves curling upward at tips and margins, over transpiration and general leaf damage).

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Top Tips and Recommendations

Tips

- Ensure grow room/chamber temperatures do not get too warm during the lights-on cycle.
- Do not use oscillating fans on young plants or if you do keep them on a low setting to avoid wind burn and leaf damage.
- Temperature - Most plant species achieve optimum growth in the temperature range of 21°C to 28°C (71°F to 82°F). Maintaining these temperatures during lights-on is not a problem as your light also provides heat. However it is important to maintain good lights-off temperature as the fall in temperature can diminish yield and plant performance. You may wish to have your lights-on time at night when the ambient temperature is lower and your lights-off time in the day when the ambient temperature is higher. It's often hard to keep temperature down when lights are on. As long as the plants look healthy and are growing every day, don't worry if your growing area seems warm - in summer it's hard to avoid.
- Always measure air temperature in the shade, away from the light.
- Humidity - The ideal for most plant species is around 50% although your plants should perform and stay healthy as long as you stay between 40% and 80% relative humidity.
- Feed strength will vary from environment to environment and from plant to plant therefore the above information should be used as a general guide. Signs of under- and over-feeding are outlined below. If you see these symptoms you should increase or decrease the feed strength accordingly.
- Overfeeding (symptoms) - The first signs are the leaves going from a shiny green to a dull dark green with possible leaf tip burn. The main indication will be the leaf tips hooked or curled downward. Nutrient deficiencies and leaf damage will follow. Remedy - reduce feed strength.
- Underfeeding (symptoms) - The plant will generally lighten in colour all over. Many of the big shade leaves lose their colour. There is no leaf curl with this condition. Remedy - increase feed strength slightly.

Hopefully the information in these instructions has been of use to you. If you are unsure about something and have a question that needs answering please give the GroWell technical team a call on **0845 345 5176** - it's free and friendly!

Happy gardening!

Recommended Extras

7007	Utility Shelf for Titan2 BudBox Grow Tent	£25.50
0114	24 hour Grasslin Mechanical Timer	£12.50
1499	RoomClean Concentrate - 1 litre	£13.95
0009	NFT Gro-Tank 424	£74.00
3877	Amazon 8 Plant Aeroponic System	£150.00
2136	24 Pot IWS Flood System	£655.00

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