



Aerojet 2 Tray



Aerojet 2 Tray

Congratulations!

You have purchased the latest in hydrogardening products from Botanicare. We are proud to offer the highest quality components and plastics to ensure years of successful gardening in the most innovative system ever.

For product support, call your retailer or contact Botanicare, toll free, 1-877-753-0404. Check out our website at www.botanicare.net for a complete list of outstanding products, including the latest in international systems, plastics and plant nutrients.

Your system is contained within three boxes. Before you start assembling your system; pull all of the parts out of your boxes. Check the system components list and make sure that you have all of the necessary parts.

2 Tray Aerojet Components

Box 1 of 3

- 1 10 Gallon Reservoir
- 2 10 Gallon Reservoir Lid
- 3 Porthole Cover
- 4 Pre-assembled Legs W/ Click Clamps
- 5 Y-Filter Assembly
- 6 Pre-assembled Drain Elbow
- 7 Pump
- 8 Pre-assembled Pump Feed
- 9 2 Drain Fittings
- 10 2 U Lines
- 11 (16) 180° Aerojet Sprayers
- 12 Net Pots
- 13 Rootguards
- 14 1 Packet Of Screws
- 15 1 Roll Of Teflon Tape

Box 2 of 3

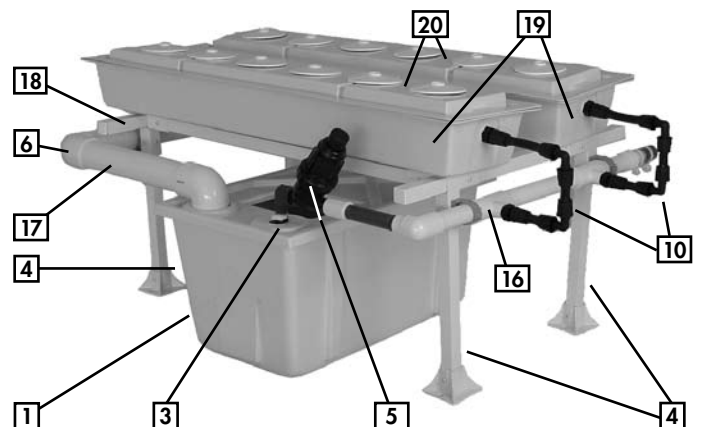
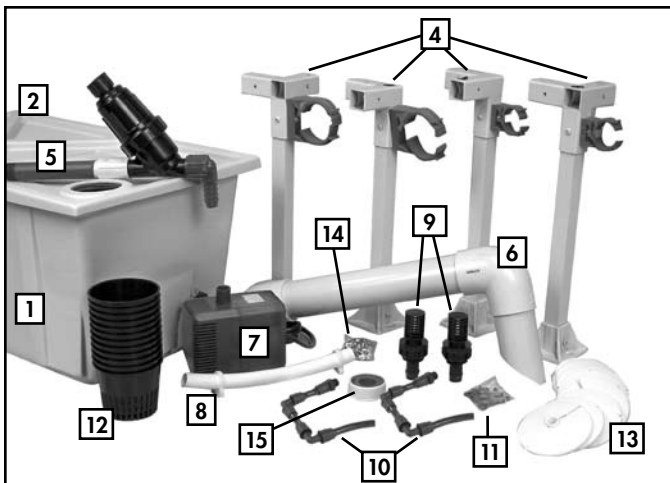
- 16 Two Tray Aerojet Feed Manifold
- 17 Two Tray Aerojet Drain Manifold
- 18 Two Tray Aerojet Aluminum Bench (With 2 Sidebars, and 2 Crossbars)

Box 3 of 3

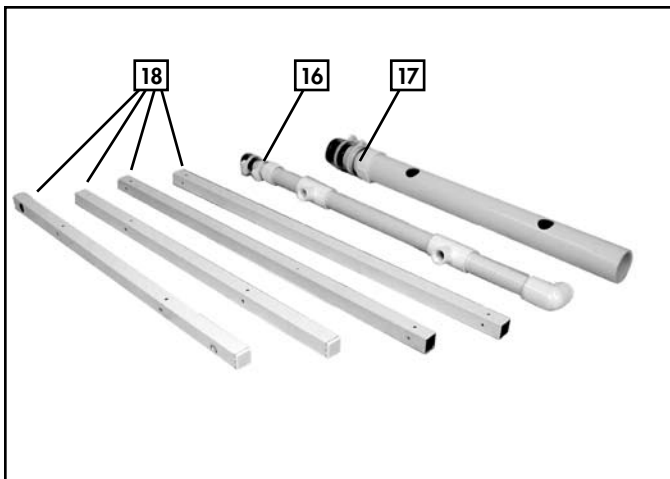
- 19 2 Trays With Internal Feed Manifolds
- 20 2 Lids

Systems contain some additional replacement parts

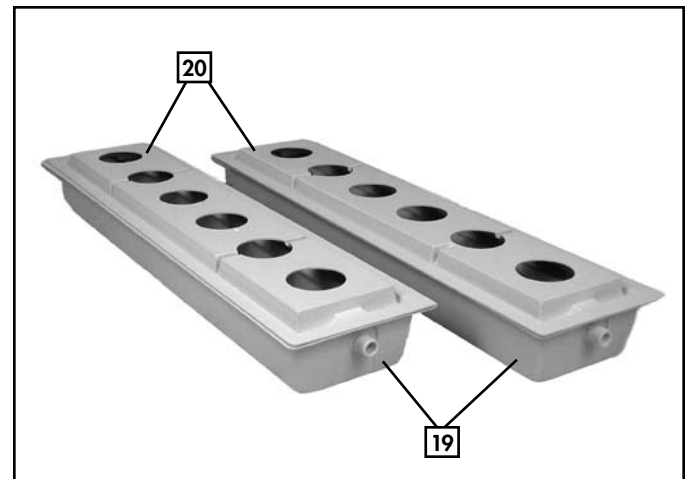
BOX 1 Reservoir box



BOX 2 Feed and drain box



BOX 3 Tray box



For correct installation of your new Aerojet follow these directions carefully. We have made every effort possible to deliver a complete system to our customers. However some assembly by the customer is necessary. This assembly can be successfully completed with the use of a Phillips head screwdriver and by carefully following these instructions.

Aerojet 2 Tray Assembly

- 1** Locate the four legs from inside the reservoir, notice that the four legs are color coded and labeled.
Red = Front right leg with (1" clamp)
Blue = Back right leg with (1" clamp)
Yellow = Front left leg (with 2" clamp)
Green = Back left leg (with 2" clamp)
The sidebars are also labeled to show the position of each leg.
 - 2** Slide the sidebars through the open end of the four legs; use the labels and markings on the sidebars to position each leg. Install a screw in each leg to connect it to the sidebars.
 - 3** Insert the crossbars into the closed end of the connectors; this will link together the 2 sidebars.
 - 4** Look carefully at your bench; each side should have 2 clamps facing out from the legs. The right side should have the smaller 1" clamps, and the left side should have the larger 2" clamps. Make sure that the bench is square, and that all of the screw holes line up. Install the remaining screws into each hole.
 - 5** Your bench is now assembled and you are ready to begin assembling the rest of your system.
 - 6** Install the 1" PVC feed manifold onto the right side of the bench, using the clamps on the legs. The elbow end of the feed manifold should be at the front end of the bench (marked A), turn the elbow so that it faces in towards the center of the system. This should turn the tees on the manifold so that they face away from the system.
 - 7** Next attach the 2" PVC drain manifold to the left side of the bench, make sure that the open end of the manifold faces towards the front of the system (marked C). The holes that are drilled along the drain manifold should face up; the drain outlets from the trays will be positioned into these holes.
 - 8** Now locate the Y-Filter assembly, use the Teflon tape to carefully coat the male threads on the attached nipple. Make sure to wrap the Teflon tape around the nipple in the direction of the threads.
 - 9** Once the nipple is sufficiently coated with Teflon screw it into the elbow on the feed manifold. Hand-tighten the Y-Filter assembly into the elbow, taking care not to over tighten it. Make sure that when you are done tightening the Y-Filter the filter faces up and the elbow at the end of the Y-Filter faces down.
 - 10** Thread the pump feed onto the outlet side of the pump.
 - 11** Place the pump at the bottom of the reservoir. The pump is fully submersible and will operate at the bottom of the reservoir.
 - 12** Position the reservoir underneath the front of the bench, and place the lid on top of the reservoir.
 - 13** Position the pump so that it is directly underneath the front right hole in the reservoir lid. Push the pump feed up through this hole.
 - 14** Attach the other end of the pump feed to the elbow on the Y-Filter assembly. Use the attached hose clamp to seal the pump feed around the elbow.
 - 15** Run the power cord from the pump out through the remaining hole on the right side of the reservoir lid.
 - 16** Now slide the drain elbow onto the open end of the drain manifold. Position the other end of the drain elbow into the left side hole on the reservoir lid. This will allow the drain manifold to drain back into the reservoir.
- NOTE:** At this time your reservoir should be positioned squarely underneath your bench, your pump should be inside your reservoir with the pump cord running out of the hole, and your feed manifold should be attached to the pump by way of the Y-Filter and pump feed. You should also have your drain elbow attached to your drain manifold, and your elbow should be positioned in the reservoir. Make sure everything is tight and lined up before moving on.
- 17** The trays should have the internal feed manifolds preinstalled in them. However you need to install the drain fittings in the trays at this time. Unscrew the nut off each drain fitting. Insert the drain fittings into the drain holes at the bottom of the trays with the screens facing up. Make sure that the rubber washers on the drain fittings rest on top of the trays. Screw the nuts back onto the drain fittings.
 - 18** Place each tray on top of the bench, with the drain fittings inserted into the drain manifold.
 - 19** At this time Wrap the male threads of each "U" line in the same manner that you wrapped the Y-Filter nipple. Install these threads into the tees on the feed manifold. Make sure that the "U" lines are tight and that they face up and into the system.
 - 20** You can now attach the "U" lines to the trays. Push the tubing into the fitting on the tray, and then tighten the fitting onto the tubing.
 - 21** Make sure that your "U" lines are firmly attached to the feed manifold and the trays.
 - 22** Now place the lids on top of the trays, insert a net pot into each hole of the lids. Gently place a root guard over each net pot.
 - 23** At this time double check your work and make sure that everything is tightly fastened. Partially fill the reservoir, and run a wet-test.

NOTE: You will not have your sprayers installed at this time, but this will allow you to flush out any debris that might be in your system. Let the system run for several minutes. Then turn the pump off and remove any debris from the system.

- 24 Remove the net pots, rootguards and lids from on top of the trays so you can install an Aerojet Sprayer into each hole in the internal feed manifolds of the trays. Be extremely careful while doing this, these are small parts and can be broken if not handled correctly. Make sure that the sprayers are tight and turned so that they face towards the center of the tray.
- 25 Reinstall the lids, net pots, and rootguards.
- 26 At this time refill your reservoir, and run another wet-test. Carefully inspect your system for leaks, and make sure that your sprayers are directed towards the net pots. The manifolds within the trays are not glued so you are able to adjust the angle of the spray if needed.

Important Pump Maintenance

Your new system is equipped with a high quality submersible pump, however to insure pump longevity routine maintenance is required. Please refer to the information sheet within the pump box for maintenance procedures. This sheet also has warranty and contact information. Keep this information in the event it is needed in the future.

Aeroponic Instructions

- 1 Fill reservoir with water (purified or spring water is best).
- 2 Add nutrients as recommended per label. For seedlings and transplants, use nutrients at quarter to half normal strength.
- 3 Test pH and adjust to a level of 5.8 - 6.2
- 4 Fill each net pot approximately halfway full with grow rock; plant a seedling into each pot. Add more grow rock to the net pot to fill it to the top. The white root guards are supplied to use if you plan on growing without any grow media, they will position and support the plants. Root guards can also be used with grow media to block out light.
- 5 Place net pots into the holes in the lids of the trays.

Aeroponic growth can be attained by constantly running the pump and circulating water or by cyclical waterings. If cyclical waterings are desired consult your hydrogardening retailer for a cycle timer. For cyclical waterings the timer can be set for less watering during the evenings, or during rest periods for the plants. Optimum cycles are 1 minute on and 4 minutes off.

Maintenance Procedures

- 1 Replenish water as needed. Add nutrients with additional water at 25-50 percent of the original strength.
- 2 The reservoir needs to be changed periodically, change about every 7 to 21 days.
- 3 Follow nutrient label recommendations for nutrient strength at each growth stage.

Options for Your Aerojet

Try a matching powder-coated aluminum light stand, or when you're ready to expand simply plug an expansion module into the Hydroflex™ Expansion Module.

Light Stands

- HLSL2 2 Tray Light Stand
- HLSL4 4 Tray Light Stand
- HLSL6 6 Tray Light Stand
- HLSL8 8 Tray Light Stand

Aerojet Expansion Modules

- HSEXAJ2 2 Tray Aerojet Expansion Module
- HSEXAJ4 4 Tray Aerojet Expansion Module
- HSEXAJ6 6 Tray Aerojet Expansion Module
- HSEXAJ8 8 Tray Aerojet Expansion Module

Consult your local dealer for pricing, or visit us on the web for more information at www.botanicare.net

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Facsimile (480) 777 2015



Aerojet 2 Tray Expansion™

The Aerojet expansion units are the ideal way to build upon your existing Aerojet system. This kit will add an additional 2 trays for up to 12 more plant sites.



Features:

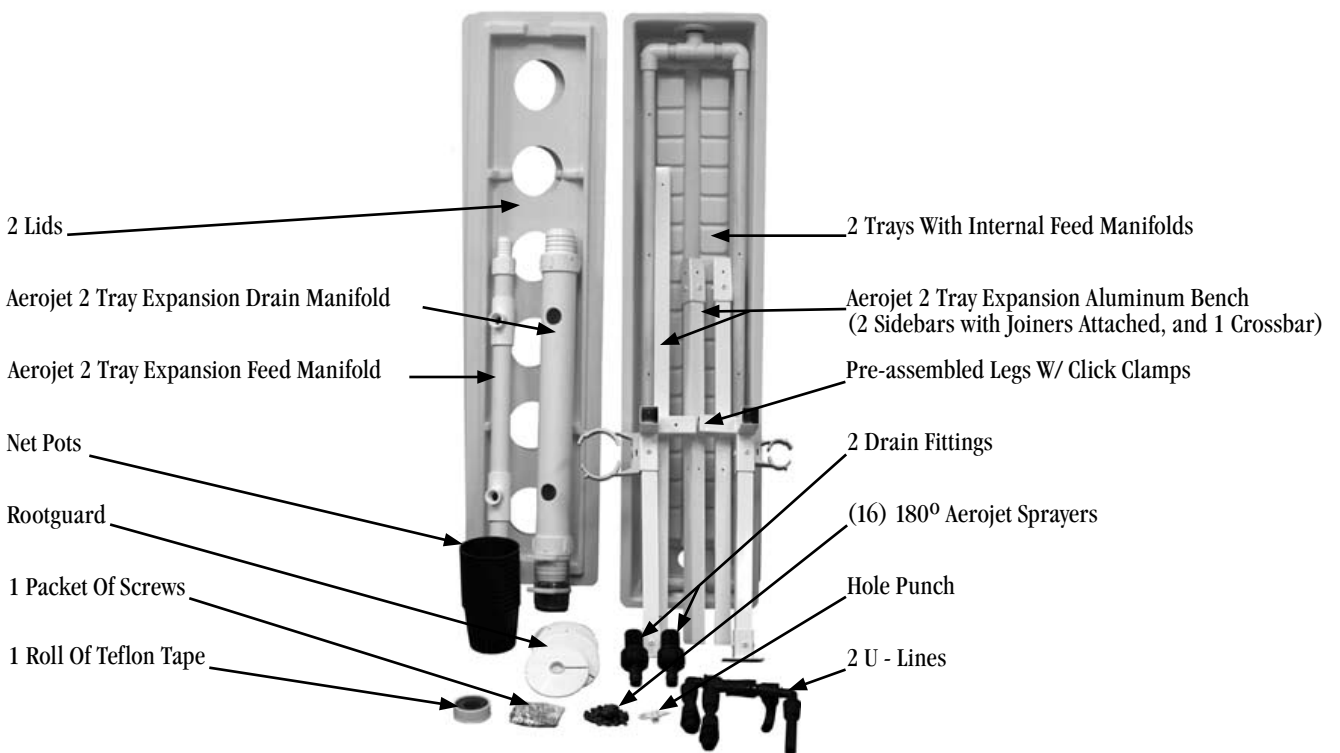
- Aeroponic feed method

Includes:

- Submersible pump with 2 year manufacturer's warranty
- 42 x 8 grow trays

System is contained within three boxes, before you start assembling your system; pull all of the parts out of your boxes. Check with the system components list and make sure that you have all of the necessary parts.

Aerojet 2 Tray Expansion™ Components



NOTE: Systems contain some additional replacement parts

The Aerojet Expansion Module is designed to be used in conjunction with an existing Aerojet System. The Expansion Module allows you to enlarge your system with minimal upgrades. Before you begin make sure that your Aerojet System is unplugged, and that the water is drained out of the system. You will want to pick the back end of your system up a few inches in order to make sure that all of the water can drain back into the reservoir.

For correct installation of your new Aerojet Expansion Module follow these directions carefully. We have made every effort possible to deliver a complete system to our customers. However some assembly by the customer is necessary. This assembly can be successfully completed with the use of a flat head screwdriver, an electric Phillips head screwdriver, and the ability to follow directions.

- 1 Locate the two legs from inside their box, notice that the legs are color coded and labeled.

Red = Right leg with (1" clamp)

Yellow = Left leg (with 2" clamp)

The sidebars are also labeled to show the position of each leg. Notice that there are two joiners at the front of the sidebars, these will be needed to attach your Expansion Module to your existing Aerojet System.

- 2 Slide the sidebars through the open end of the legs; use the labels and markings on the sidebars to position each leg. Install a screw in each leg to connect it to the sidebars.
- 3 Insert the crossbar into the closed end of the connectors; this will link together the 2 sidebars.
- 4 Look carefully at your bench; you should have a clamp facing out from each leg. The right side should have the smaller 1" clamp, and the left side should have the larger 2" clamp. Make sure that the bench is square, that the two sidebar joiners are at the front of the system, and that all of the screw holes line up.
- 5 Line the front of your Expansion Module up with the back of your existing Aerojet System. Use the joiners attached to the front of the sidebars to connect the Expansion Module to your existing Aerojet System. You will have to use an electric screwdriver to drive the screws through the joiners and into the sidebars of your existing system. This will connect your Expansion Module securely to your existing Aerojet System.

- 6 At this time install the remaining screws into each hole in your bench.
- 7 Your bench is now assembled and you are ready to begin assembling the rest of your system.
- 8 Carefully remove the plugs out of the Hydroflex adaptors at the ends of your feed and drain manifolds of your existing Aerojet System. To do this you will have to loosen the hose clamps and pry the plugs out. A flat head screw driver works fine to do this.
- 9 With your plugs out of your Hydroflex adaptors you should have both of your manifolds ready, and you can begin to attach your Expansion Module manifolds to them.

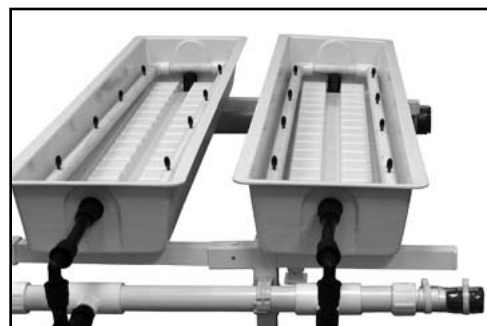
- 10 Install the 1" PVC feed manifold onto the right side of the bench, using the clamp on the leg. The open end of the feed manifold should be at the front end of the bench (marked A). Turn the tees on the manifold so that they face away from the system.



- 11 Carefully insert the open end of the Expansion feed manifold into the open end of the feed manifold of your existing Aerojet System. Tighten the hose clamp around the hose to seal the connection.
- 12 Next attach the 2" PVC drain manifold to the left side of the bench, make sure that the open end of the manifold faces towards the front of the system (marked C). The holes that are drilled along the drain manifold should face up; the drain outlets from the trays will be positioned into these holes.
- 13 Insert the open end of the Expansion drain manifold into the open end of the drain manifold of your existing Aerojet System. Tighten the hose clamp around the hose to seal the connection.
- 14 The trays should have the internal feed manifolds preinstalled in them. However you need to install the drain fittings in the trays at this time. Unscrew the nut off each drain fitting. Insert the drain fittings into the drain holes at the bottom of the trays with the screens facing up. Make sure that the rubber washers on the drain fittings rest on top of the trays. Screw the nuts back onto the drain fittings.
- 15 Place each tray on top of the bench, with the drain fittings inserted into the drain manifold.
- 16 At this time wrap the male threads of each "U" line; make sure to wrap the Teflon tape around the nipple in the direction of the threads. Install these threads into the tees on the feed manifold. Make sure that the "U" lines are tight and that they face up and into the system.
- 17 You can now attach the "U" lines to the trays. Push the tubing into the fitting on the tray, and then tighten the fitting onto the tubing.
- 18 Make sure that your "U" lines are firmly attached to the feed manifold and the trays.
- 19 Now place the lids on top of the trays, insert a net pot into each hole of the lids. Gently place a root guard over each net pot.
- 20 At this time double check your work and make sure that everything is tightly fastened. Partially fill the reservoir, and run a wet-test.

NOTE: You will not have your sprayers installed at this time, but this will allow you to flush out any debris that might be in your system. Let the system run for several minutes. Then turn the pump off and remove any debris from the system.

- 21 Remove the net pots, rootguards and lids from on top of the trays so you can install an Aerojet Sprayer into each hole in the internal feed manifolds of the trays. Be extremely careful while doing this, these are small parts and can be broken if not handled correctly. Make sure that the sprayers are tight and turned so that they face towards the center of the tray.
- 22 Reinstall the lids, net pots, and rootguards.
- 23 At this time refill your reservoir, and run another wet-test. Carefully inspect your system for leaks, and make sure that your sprayers are directed towards the net pots. The manifolds within the trays are not glued so you are able to adjust the angle of the spray if needed.



Aeroponic Instructions:

- 1 Fill reservoir with water (purified or spring water is best).
- 2 Add nutrients as recommended per label. For seedlings and transplants, use nutrients at quarter to half normal strength.
- 3 Test pH and adjust to a level of 5.8 - 6.2
- 4 Fill each net pot approximately halfway full with grow rock; plant a seedling into each pot. Add more grow rock to the net pot to fill it to the top. The white root guards are supplied to use if you plan on growing without any grow media, they will position and support the plants. Root guards can also be used with grow media to block out light.
- 5 Place net pots into the holes in the lids of the trays.
- 6 Aeroponic growth can be attained by constantly running the pump and circulating water or by cyclical waterings. If cyclical waterings are desired consult your hydrogardening retailer for a cycle timer. For cyclical waterings the timer can be set for less watering during the evenings, or during rest periods for the plants. Optimum cycles are 1 minute on and 4 minutes off.

Maintenance Procedures

- 1 Replenish water as needed. Add nutrients with additional water at 25-50 percent of the original strength.
- 2 The reservoir needs to be changed periodically, change about every 7 to 21 days.
- 3 Follow nutrient label recommendations for nutrient strength at each growth stage.

Options for Your Aerojet

Try a matching powder-coated aluminum light stand or when you're ready to expand, simply plug an expansion module into the Hydroflex Expansion Module.

Light Stand

- HSL2 2 Tray Light Stand
- HSL4 4 Tray Light Stand
- HSL6 6 Tray Light Stand
- HSL8 8 Tray Light Stand

Aerojet Expansion Modules

- HSEXAJ2 2 Tray Aerojet Expansion Module
- HSEXAJ4 4 Tray Aerojet Expansion Module
- HSEXAJ6 6 Tray Aerojet Expansion Module
- HSEXAJ8 8 Tray Aerojet Expansion Module

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Aerojet 2 x 4 - 1 Tray™

Grow large in a small space with the Aerojet 2 x 4 - 1 Tray™, the perpetual growth machine.

The Aerojet 2 x 4 - 1 Tray provides an effective and automated method to deliver optimal levels of water, nutrients, and oxygen for rapid growth rates, higher yields, increased nutritional value, and flavors in a 35" - 44" area.



Features:

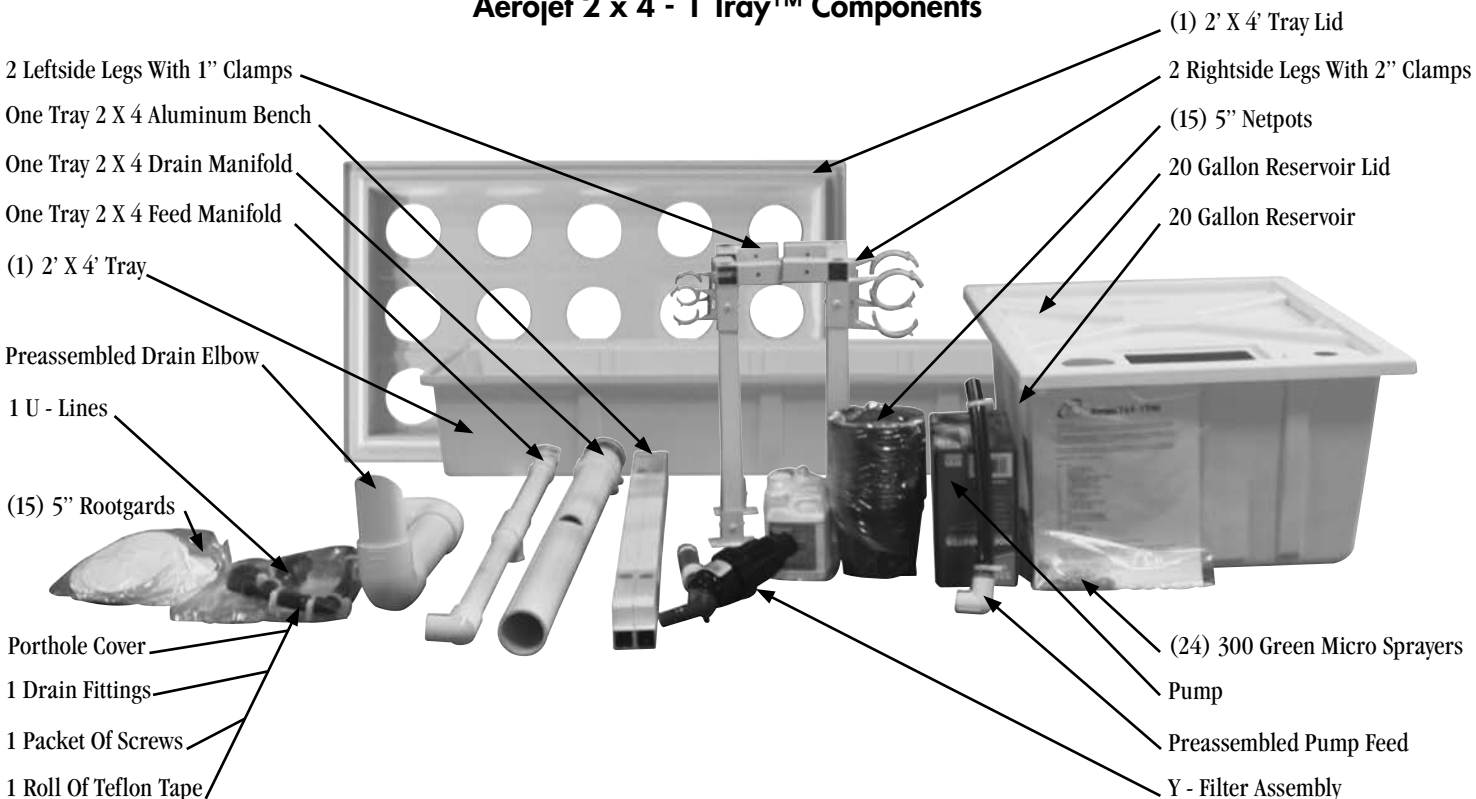
- Utilizes the Aeroponic feed method.

Includes:

- Submersible pump with 2 year manufacturer's warranty
- 20 gallon Res
- 2 x 4 grow tray

System is contained within three boxes, before you start assembling your system; pull all of the parts out of your boxes. Check with the system components list and make sure that you have all of the necessary parts.

Aerojet 2 x 4 - 1 Tray™ Components



NOTE: Systems come with some additional replacement parts.

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- 1** Locate the four legs from inside the reservoir, notice that the four legs are color coded and labeled.
Red = Front right leg with 1" clamp
Blue = Back right leg with 1" clamp
Yellow = Front left leg with 2" clamp
Green = Back left leg with 2" clamp
The sidebars are also labeled to show the position of each leg.
- 2** Slide the sidebars through the open end of the four legs; use the labels and markings on the sidebars to position each leg. Install a screw in each leg to connect it to the sidebars.
- 3** Insert the crossbars into the closed end of the connectors; this will link together the 2 sidebars.
- 4** Look carefully at your bench; you should have 2 clamps facing out from the legs on each side of the bench. The right side should have the smaller 1" clamps, and the left side should have the larger 2" clamps. Make sure that the bench is square, and that all of the screw holes line up. Install the remaining screws into each hole.
- 5** Your bench is now assembled and you are ready to begin assembling the rest of your system.
- 6** Install the 1" PVC feed manifold onto the right side of the bench, using the clamps on the legs. The elbow end of the feed manifold should be at the front end of the bench (marked A), turn the elbow so that it faces into the system. This should turn the tees on the manifold so that they face straight down.
- 7** Next attach the 2" PVC drain manifold to the left side of the bench, make sure that the open end of the manifold faces towards the front of the system (marked C). The holes that are drilled in the drain manifold should face up; the drain outlets from the trays will be positioned into these holes.
- 8** Now locate the Y-Filter assembly, use the Teflon tape to carefully coat the male threads on the attached nipple. Make sure to wrap the Teflon tape around the nipple in the direction of the threads.
- 9** Once the nipple is sufficiently coated with Teflon screw it into the elbow on the feed manifold. Hand-tighten the Y-Filter assembly into the elbow, taking care not to over tighten it. Make sure that when you are done tightening the Y-Filter the filter faces up and the elbow at the end of the Y-Filter faces down.
- 10** Install the pump feed onto the outlet side of the pump, using one of the hose clamps to seal the pump feed around the outlet.
- 11** Place the pump at the bottom of the reservoir. The pump is fully submersible and will operate at the bottom of the reservoir.
- 12** Position the reservoir underneath the front of the bench, and place the lid on top of the reservoir.
- 13** Position the pump so that it is directly underneath the front right hole in the reservoir lid. Push the pump feed up through this hole.
- 14** Attach the other end of the pump feed to the elbow on the Y-Filter assembly. Use the remaining hose clamp to seal the tubing around the elbow.

15 Run the power cord from the pump out through the remaining hole on the right side of the reservoir lid.

16 Now slide the drain elbow onto the open end of the drain manifold. Position the other end of the drain elbow into the left side hole on the reservoir lid. This will allow the drain manifold to drain back into the reservoir.

NOTE: At this time your reservoir should be positioned squarely underneath your bench, your pump should be inside your reservoir with the pump cord running out of the hole, and your feed manifold should be attached to the pump by way of the Y-Filter and pump feed. You should also have your drain elbow attached to your drain manifold, and your elbow should be positioned in the reservoir. Make sure everything is tight and lined up before moving on.

17 The drain fittings needs to be installed into the drain end, or indented end of the trays. Unscrew the nut off of the drain fittings. Insert the drain fittings into the drain hole at the bottom of the trays with the screens facing up. Make sure that the rubber washers from the drain fittings rest on top of the trays. Screw the nuts back onto the drain fittings.

18 You will now need to install the feed manifolds into each of the trays. Remove the nut from the fitting at the end of each manifold and insert the manifold into the tray. Make sure that the rubber washer remains on top of the tray. Tighten the nut back onto the fitting.

19 Place each tray on top of the bench, with the drain fittings inserted into the drain manifold.

20 At this time Wrap the male threads of each "U" line in the same manner that you wrapped the Y-Filter nipple. Install these threads into the tees on the feed manifold. Make sure that the "U" lines are tight and that they face up and into the system.

21 You can now attach the "U" lines to the trays. Push the tubing into the fitting on the tray, and then tighten the fitting onto the tubing.

22 Make sure that your "U" lines are firmly attached to the feed manifold and the trays.

23 Now place the lids on top of the trays, insert a net pot into each hole of the lids. Gently place a neoprene insert into each net pot.

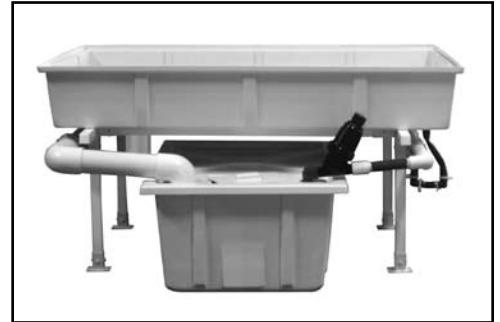
24 At this time double check your work and make sure that everything is tightly fastened. Partially fill the reservoir, and run a wet-test.

NOTE: you will not have your sprayers installed at this time, but this will allow you to flush out any debris that might be in your system. Let the system run for several minutes. Then turn the pump off and remove any debris from the system.

25 Remove the net pots, rootguards and lids from on top of the trays so you can install an Aerojet Sprayer into each hole in the internal feed manifolds of the trays. Be extremely careful while doing this, these are small parts and can be broken if not handled correctly. Make sure that the sprayers are tight and turned so that they face towards the center of the tray.

26 Reinstall the lids, net pots, and neoprene inserts.

27 At this time refill your reservoir, and run another wet-test. Carefully inspect your system for leaks, and make sure that your sprayers are directed towards the net pots. The manifolds within the trays are not glued so you are able to adjust the angle of the spray if needed.



Important Pump Maintenance

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Options for Your Aerojet

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Light Stand

HLSL2	2 Foot Light Stand
HLSL4	4 Foot Light Stand
HLSL6	6 Foot Light Stand

Aerojet 2 x 4 Expansion Modules

HSEXAJ2X4-1	1 Tray Aerojet Expansion Module
HSEXAJ2X4-2	2 Tray Aerojet Expansion Module
HSEXAJ2X4-4	3 Tray Aerojet Expansion Module

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Aerojet 4 Tray



* TWO TRAY SYSTEM SHOWN

Aerojet 4 Tray

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Aerojet 4 Tray Components

Box 1 of 3

- 1 20 Gallon Reservoir
- 2 20 Gallon Reservoir Lid
- 3 Porthole Cover
- 4 Pre-assembled Legs W/ Click Clamps
- 5 Y-Filter Assembly
- 6 Pre-assembled Drain Elbow
- 7 Pump
- 8 Pre-assembled Pump Feed
- 9 4 Drain Fittings
- 10 4 U Lines
- 11 Net Pots
- 12 Rootguards
- 13 (32) 180° Aerojet Sprayers
- 14 1 Packet Of Screws
- 15 1 Roll Of Teflon Tape

Box 2 of 3

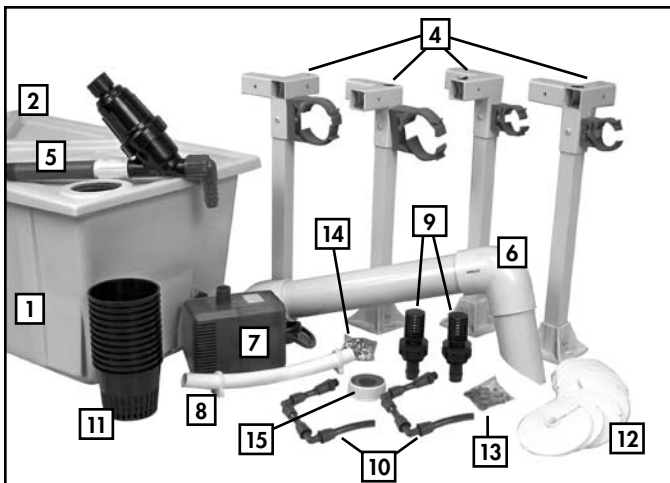
- 16 Four Tray Aerojet Feed Manifold
- 17 Four Tray Aerojet Drain Manifold
- 18 Four Tray Aerojet Aluminum Bench (With 2 Sidebars, and 2 Crossbars)

Box 3 of 3

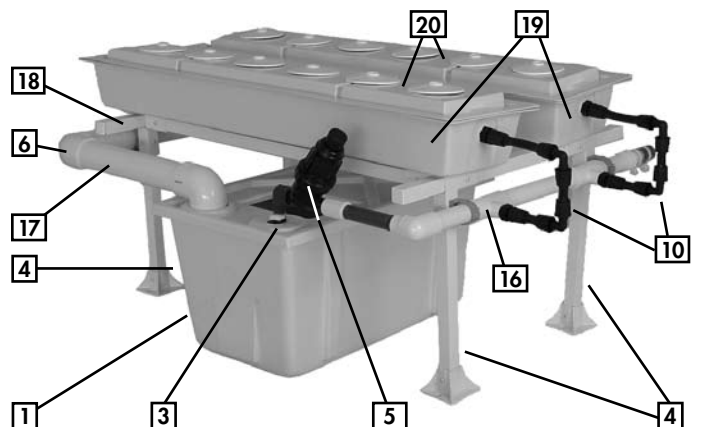
- 19 4 Trays With Internal Feed Manifolds
- 20 4 Lids

Systems contain some additional replacement parts

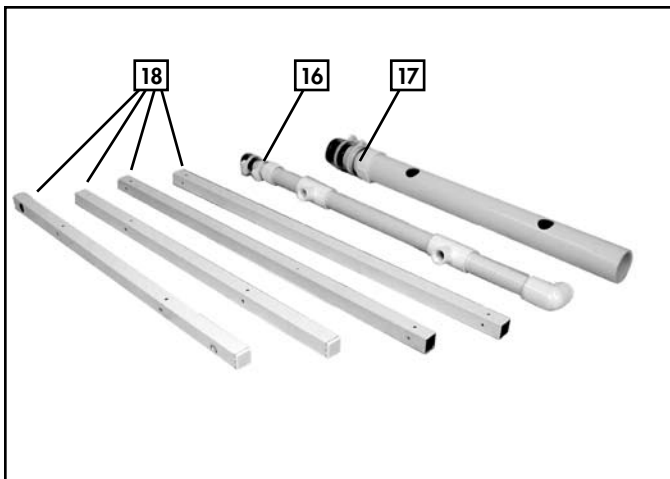
BOX 1 Reservoir box



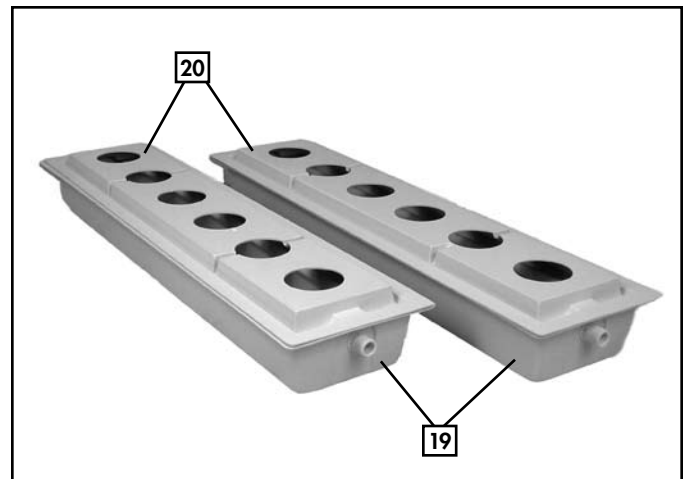
* TWO TRAY SYSTEM SHOWN



BOX 2 Feed and drain box



BOX 3 Tray box



For correct installation of your new Aerojet follow these directions carefully. We have made every effort possible to deliver a complete system to our customers. However some assembly by the customer is necessary. This assembly can be successfully completed with the use of a Phillips head screwdriver and by carefully following these directions.

Aerojet 4 Tray Assembly

- 1** Locate the four legs from inside the reservoir, notice that the four legs are color coded and labeled.
Red = Front right leg with (1" clamp)
Blue = Back right leg with (1" clamp)
Yellow = Front left leg (with 2" clamp)
Green = Back left leg (with 2" clamp)
The sidebars are also labeled to show the position of each leg.
- 2** Slide the sidebars through the open end of the four legs; use the labels and markings on the sidebars to position each leg. Install a screw in each leg to connect it to the sidebars.
- 3** Insert the crossbars into the closed end of the connectors; this will link together the 2 sidebars.
- 4** Look carefully at your bench; each side should have 2 clamps facing out from the legs. The right side should have the smaller 1" clamps, and the left side should have the larger 2" clamps. Make sure that the bench is square, and that all of the screw holes line up. Install the remaining screws into each hole.
- 5** Your bench is now assembled and you are ready to begin assembling the rest of your system.
- 6** Install the 1" PVC feed manifold onto the right side of the bench, using the clamps on the legs. The elbow end of the feed manifold should be at the front end of the bench (marked A), turn the elbow so that it faces in towards the center of the system. This should turn the tees on the manifold so that they face away from the system.
- 7** Next attach the 2" PVC drain manifold to the left side of the bench, make sure that the open end of the manifold faces towards the front of the system (marked C). The holes that are drilled along the drain manifold should face up; the drain outlets from the trays will be positioned into these holes.
- 8** Now locate the Y-Filter assembly, use the Teflon tape to carefully coat the male threads on the attached nipple. Make sure to wrap the Teflon tape around the nipple in the direction of the threads.
- 9** Once the nipple is sufficiently coated with Teflon screw it into the elbow on the feed manifold. Hand-tighten the Y-Filter assembly into the elbow, taking care not to over tighten it. Make sure that when you are done tightening the Y-Filter the filter faces up and the elbow at the end of the Y-Filter faces down.
- 10** Thread the pump feed onto the outlet side of the pump.
- 11** Place the pump at the bottom of the reservoir. The pump is fully submersible and will operate at the bottom of the reservoir.

- 12** Position the reservoir underneath the front of the bench, and place the lid on top of the reservoir.
- 13** Position the pump so that it is directly underneath the front right hole in the reservoir lid. Push the pump feed up through this hole.
- 14** Attach the other end of the pump feed to the elbow on the Y-Filter assembly. Use the attached hose clamp to seal the pump feed around the elbow.
- 15** Run the power cord from the pump out through the remaining hole on the right side of the reservoir lid.
- 16** Now slide the drain elbow onto the open end of the drain manifold. Position the other end of the drain elbow into the left side hole on the reservoir lid. This will allow the drain manifold to drain back into the reservoir.

NOTE: At this time your reservoir should be positioned squarely underneath your bench, your pump should be inside your reservoir with the pump cord running out of the hole, and your feed manifold should be attached to the pump by way of the Y-Filter and pump feed. You should also have your drain elbow attached to your drain manifold, and your elbow should be positioned in the reservoir. Make sure everything is tight and lined up before moving on.

- 17** The trays should have the internal feed manifolds pre installed in them. However you need to install the drain fittings in the trays at this time. Unscrew the nut off each drain fitting. Insert the drain fittings into the drain holes at the bottom of the trays with the screens facing up. Make sure that the rubber washers on the drain fittings rest on top of the trays. Screw the nuts back onto the drain fittings.
- 18** Place each tray on top of the bench, with the drain fittings inserted into the drain manifold.
- 19** At this time Wrap the male threads of each "U" line in the same manner that you wrapped the Y-Filter nipple. Install these threads into the tees on the feed manifold. Make sure that the "U" lines are tight and that they face up and into the system.
- 20** You can now attach the "U" lines to the trays. Push the tubing into the fitting on the tray, and then tighten the fitting onto the tubing.
- 21** Make sure that your "U" lines are firmly attached to the feed manifold and the trays.
- 22** Now place the lids on top of the trays, insert a net pot into each hole of the lids. Gently place a root guard over each net pot.
- 23** At this time double check your work and make sure that everything is tightly fastened. Partially fill the reservoir, and run a wet-test.

NOTE: You will not have your sprayers installed at this time, but this will allow you to flush out any debris that might be in your system. Let the system run for several minutes. Then turn the pump off and remove any debris from the system.

- 24 Remove the net pots, rootguards and lids from on top of the trays so you can install an Aerojet Sprayer into each hole in the internal feed manifolds of the trays. Be extremely careful while doing this, these are small parts and can be broken if not handled correctly. Make sure that the sprayers are tight and turned so that they face towards the center of the tray.
- 25 Reinstall the lids, net pots, and rootguards.
- 26 At this time refill your reservoir, and run another wet-test. Carefully inspect your system for leaks, and make sure that your sprayers are directed towards the net pots. The manifolds within the trays are not glued so you are able to adjust the angle of the spray if needed.

Important Pump Maintenance

Your new system is equipped with a high quality submersible pump, however to insure pump longevity routine maintenance is required. Please refer to the information sheet within the pump box for maintenance procedures. This sheet also has warranty and contact information. Keep this information in the event it is needed in the future

Aeroponic Instructions

- 1 Fill reservoir with water (purified or spring water is best)
- 2 Add nutrients as recommended per label. For seedlings and transplants, use nutrients at quarter to half normal strength.
- 3 Test pH and adjust to a level of 5.8 - 6.2
- 4 Fill each net pot approximately halfway full with grow rock; plant a seedling into each pot. Add more grow rock to the net pot to fill it to the top. The white root guards are supplied to use if you plan on growing without any grow media, they will position and support the plants. Root guards can also be used with grow media to block out light.
- 5 Place net pots into the holes in the lids of the trays.

Aeroponic growth can be attained by constantly running the pump and circulating water or by cyclical waterings. If cyclical waterings are desired consult your hydrogardening retailer for a cycle timer. For cyclical waterings the timer can be set for less watering during the evenings, or during rest periods for the plants. Optimum cycles are 1 minute on and 4 minutes off.

Maintenance Procedures

- 1 Replenish water as needed. Add nutrients with additional water at 25-50 percent of the original strength.
- 2 The reservoir needs to be changed periodically, change about every 7 to 21 days.
- 3 Follow nutrient label recommendations for nutrient strength at each growth stage

Options for Your Aerojet

Try a matching powder-coated aluminum light stand, or when you're ready to expand simply plug an expansion module into the Hydroflex™ Expansion Module.

Light Stands

- HLSL2 2 Tray Light Stand
- HLSL4 4 Tray Light Stand
- HLSL6 6 Tray Light Stand
- HLSL8 8 Tray Light Stand

Aerojet Expansion Modules

- HSEXAJ2 2 Tray Aerojet Expansion Module
- HSEXAJ4 4 Tray Aerojet Expansion Module
- HSEXAJ6 6 Tray Aerojet Expansion Module
- HSEXAJ8 8 Tray Aerojet Expansion Module

Consult your local dealer for pricing, or visit us on the web for more information at www.botanicare.net

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Toll Free 1 (877) 753 0404
Local (480) 777 2000
Facsimile (480) 777 2015



Aerojet 4 Tray Expansion™

The Aerojet expansion units are the ideal way to build upon your existing Aerojet system. This kit will add an additional 4 trays for up to 24 more plant sites.



* Two Tray System Shown

Features:

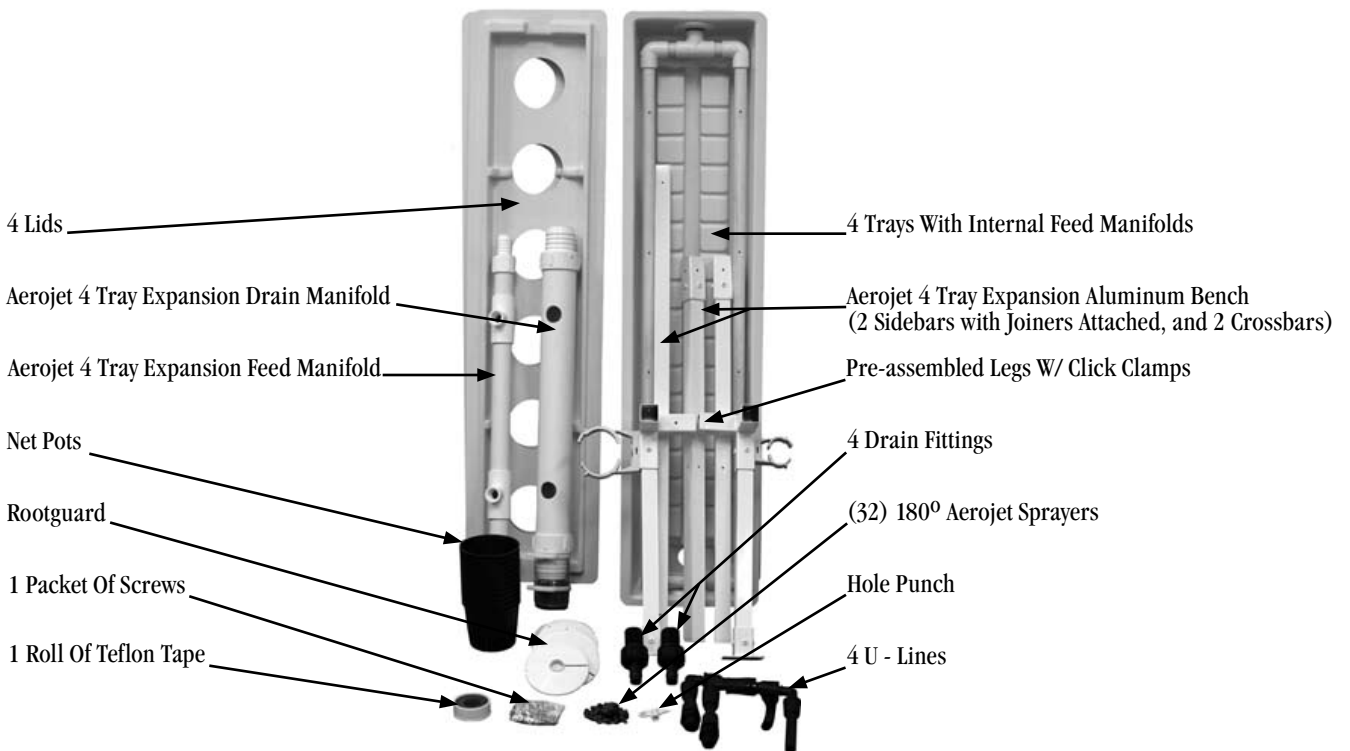
- Aeroponic feed method

Includes:

- Submersible pump with 2 year manufacturer's warranty
- 42 x 8 grow trays

System is contained within three boxes, before you start assembling your system; pull all of the parts out of your boxes. Check with the system components list and make sure that you have all of the necessary parts.

Aerojet 4 Tray Expansion™ Components



NOTE: Systems contain some additional replacement parts

* Two Tray System Shown

The Aerojet Expansion Module is designed to be used in conjunction with an existing Aerojet System. The Expansion Module allows you to enlarge your system with minimal upgrades. Before you begin make sure that your Aerojet System is unplugged, and that the water is drained out of the system. You will want to pick the back end of your system up a few inches in order to make sure that all of the water can drain back into the reservoir.

For correct installation of your new Aerojet Expansion Module follow these directions carefully. We have made every effort possible to deliver a complete system to our customers. However some assembly by the customer is necessary. This assembly can be successfully completed with the use of a flat head screwdriver, an electric Phillips head screwdriver, and the ability to follow directions.

- 1 Locate the four legs from inside their box, notice that the legs are color coded and labeled.

Red = Front right leg with (1" clamp)
Blue = Back right leg with (1" clamp)
Yellow = Front left leg (with 2" clamp)
Green = Back left leg (with 2" clamp)

The sidebars are also labeled to show the position of each leg. Notice that there are two joiners at the front of the sidebars, these will be needed to attach your Expansion Module to your existing Aerojet System.

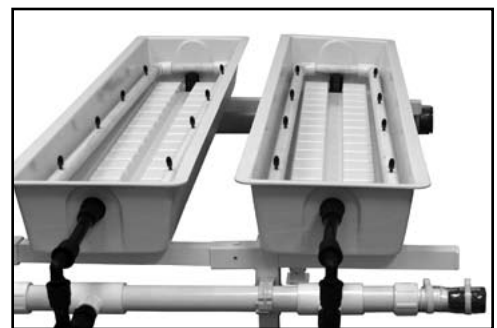
- 2 Slide the sidebars through the open end of the legs; use the labels and markings on the sidebars to position each leg. Install a screw in each leg to connect it to the sidebars.
- 3 Insert the crossbars into the closed end of the connectors; this will link together the 2 sidebars.
- 4 Look carefully at your bench; you should have a clamp facing out from each leg. The right side should have the smaller 1" clamps, and the left side should have the larger 2" clamps. Make sure that the bench is square, that the two sidebar joiners are at the front of the system, and that all of the screw holes line up.

- 5 Line the front of your Expansion Module up with the back of your existing Aerojet System. Use the joiners attached to the front of the sidebars to connect the Expansion Module to your existing Aerojet System. You will have to use an electric screwdriver to drive the screws through the joiners and into the sidebars of your existing system. This will connect your Expansion Module securely to your existing Aerojet System.

- 6 At this time install the remaining screws into each hole in your bench.
- 7 Your bench is now assembled and you are ready to begin assembling the rest of your system.
- 8 Carefully remove the plugs out of the Hydroflex adaptors at the ends of your feed and drain manifolds of your existing Aerojet System. To do this you will have to loosen the hose clamps and pry the plugs out. A flat head screw driver works fine to do this.
- 9 With your plugs out of your Hydroflex adaptors you should have both of your manifolds ready, and you can begin to attach your Expansion Module manifolds to them.

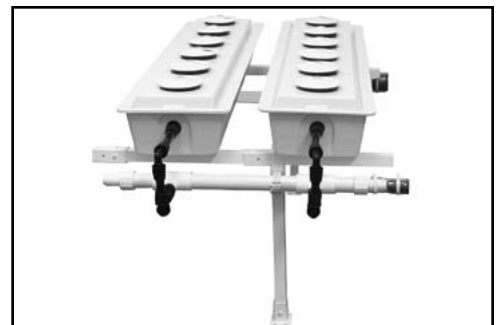


- 10 Install the 1" PVC feed manifold onto the right side of the bench, using the clamp on the leg. The open end of the feed manifold should be at the front end of the bench (marked A). Turn the tees on the manifold so that they face away from the system.
- 11 Carefully insert the open end of the Expansion feed manifold into the open end of the feed manifold of your existing Aerojet System. Tighten the hose clamp around the hose to seal the connection.
- 12 Next attach the 2" PVC drain manifold to the left side of the bench, make sure that the open end of the manifold faces towards the front of the system (marked C). The holes that are drilled along the drain manifold should face up; the drain outlets from the trays will be positioned into these holes.
- 13 Insert the open end of the Expansion drain manifold into the open end of the drain manifold of your existing Aerojet System. Tighten the hose clamp around the hose to seal the connection.
- 14 The trays should have the internal feed manifolds preinstalled in them. However you need to install the drain fittings in the trays at this time. Unscrew the nut off each drain fitting. Insert the drain fittings into the drain holes at the bottom of the trays with the screens facing up. Make sure that the rubber washers on the drain fittings rest on top of the trays. Screw the nuts back onto the drain fittings.
- 15 Place each tray on top of the bench, with the drain fittings inserted into the drain manifold.
- 14 At this time wrap the male threads of each "U" line; make sure to wrap the Teflon tape around the nipple in the direction of the threads. Install these threads into the tees on the feed manifold. Make sure that the "U" lines are tight and that they face up and into the system.
- 16 You can now attach the "U" lines to the trays. Push the tubing into the fitting on the tray, and then tighten the fitting onto the tubing.
- 17 Make sure that your "U" lines are firmly attached to the feed manifold and the trays.
- 18 Now place the lids on top of the trays, insert a net pot into each hole of the lids. Gently place a root guard over each net pot.
- 19 At this time double check your work and make sure that everything is tightly fastened. Partially fill the reservoir, and run a wet-test.



NOTE: you will not have your sprayers installed at this time, but this will allow you to flush out any debris that might be in your system. Let the system run for several minutes. Then turn the pump off and remove any debris from the system.

- 20 Remove the net pots, rootguards and lids from on top of the trays so you can install an Aerojet Sprayer into each hole in the internal feed manifolds of the trays. Be extremely careful while doing this, these are small parts and can be broken if not handled correctly. Make sure that the sprayers are tight and turned so that they face towards the center of the tray.
- 21 Reinstall the lids, net pots, and rootguards.
- 22 At this time refill your reservoir, and run another wet-test. Carefully inspect your system for leaks, and make sure that your sprayers are directed towards the net pots. The manifolds within the trays are not glued so you are able to adjust the angle of the spray if needed.



Aeroponic Instructions:

- 1 Fill reservoir with water (purified or spring water is best).
- 2 Add nutrients as recommended per label. For seedlings and transplants, use nutrients at quarter to half normal strength.
- 3 Test pH and adjust to a level of 5.8 - 6.2
- 4 Fill each net pot approximately halfway full with grow rock; plant a seedling into each pot. Add more grow rock to the net pot to fill it to the top. The white root guards are supplied to use if you plan on growing without any grow media, they will position and support the plants. Root guards can also be used with grow media to block out light.
- 5 Place net pots into the holes in the lids of the trays.
- 6 Aeroponic growth can be attained by constantly running the pump and circulating water or by cyclical waterings. If cyclical waterings are desired consult your hydrogardening retailer for a cycle timer. For cyclical waterings the timer can be set for less watering during the evenings, or during rest periods for the plants. Optimum cycles are 1 minute on and 4 minutes off.

Maintenance Procedures

- 1 Replenish water as needed. Add nutrients with additional water at 25-50 percent of the original strength.
- 2 The reservoir needs to be changed periodically, change about every 7 to 21 days.
- 3 Follow nutrient label recommendations for nutrient strength at each growth stage.

Options for Your Aerojet

Try a matching powder-coated aluminum light stand or when you're ready to expand, simply plug an expansion module into the Hydroflex Expansion Module.

Light Stand

- HSL2 2 Tray Light Stand
- HSL4 4 Tray Light Stand
- HSL6 6 Tray Light Stand
- HSL8 8 Tray Light Stand

Aerojet Expansion Modules

- HSEXAJ2 2 Tray Aerojet Expansion Module
- HSEXAJ4 4 Tray Aerojet Expansion Module
- HSEXAJ6 6 Tray Aerojet Expansion Module
- HSEXAJ8 8 Tray Aerojet Expansion Module

Congratulations!

You have purchased the latest in hydrogardening products from Botanicare. We are proud to offer the highest quality components and plastics to ensure years of successful gardening in the most innovative system ever.

For product support, call your retailer or contact Botanicare, toll free, 1-877-753-0404. Check out our website at www.botanicare.net for a complete list of outstanding products, including the latest in international systems, plastics and plant nutrients.

Consult you local dealer for pricing, or visit us on the web for more information at www.botanicare.net

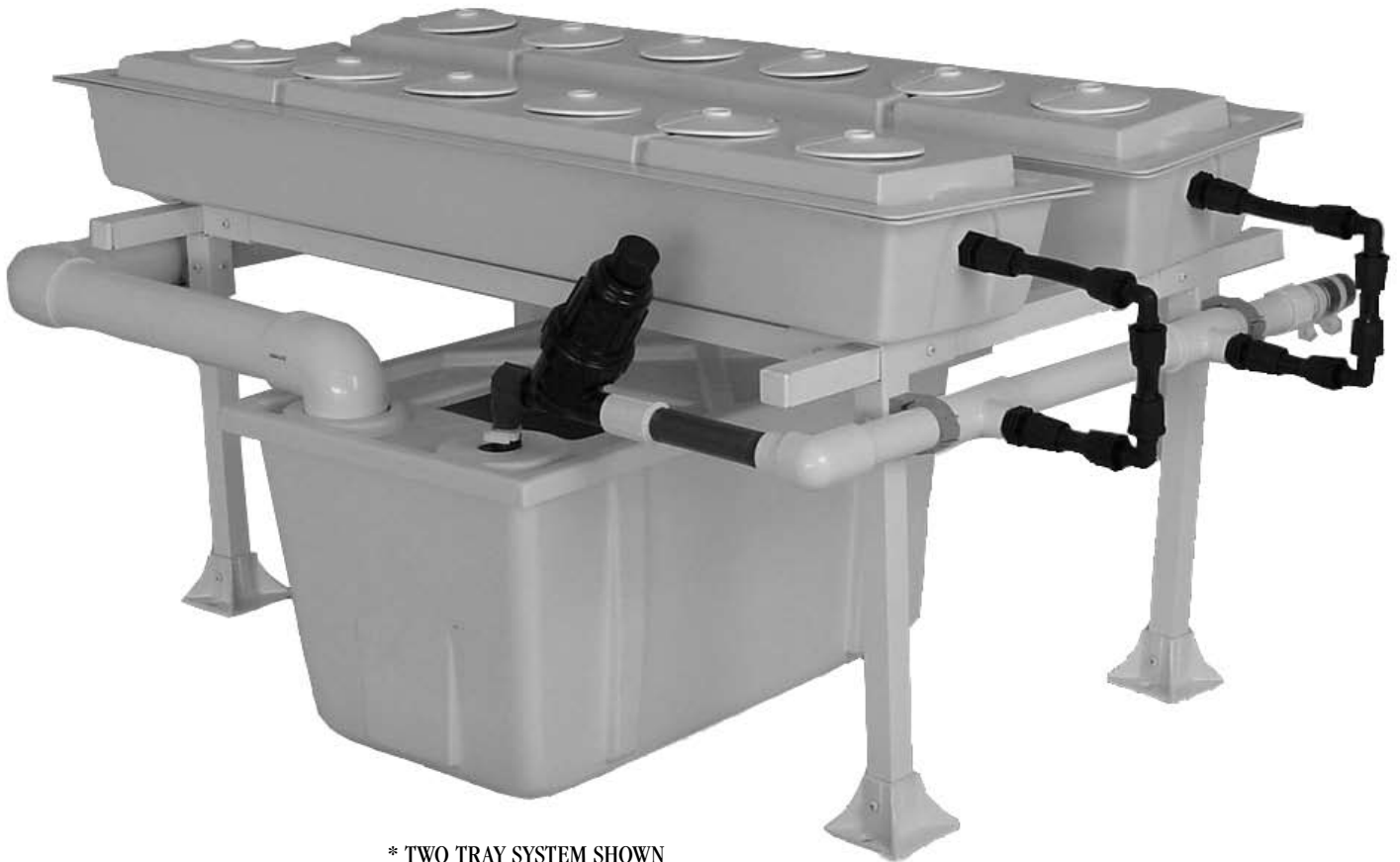
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Chandler, AZ 85226 USA
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Toll Free 1 (877) 753 0404
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Aerojet 6 Tray



* TWO TRAY SYSTEM SHOWN

Aerojet 6 Tray

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Your system is contained within four boxes, before you start assembling your system; pull all of the parts out of your boxes. Check with the system components list and make sure that you have all of the necessary parts.

Aerojet 6 Tray Components

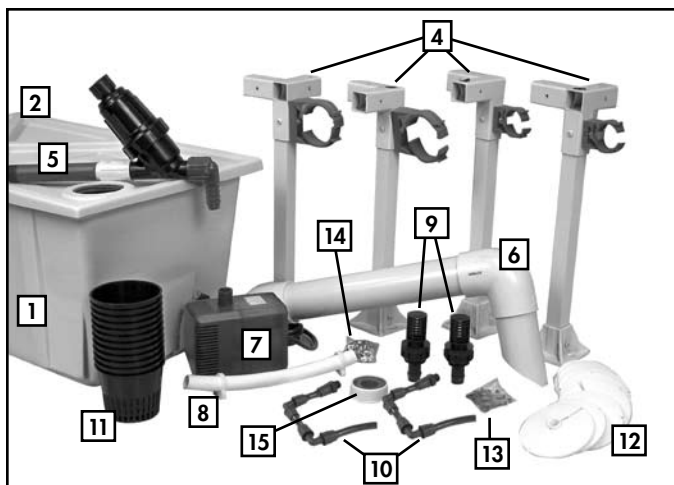
Box 1 of 4

- 1 20 Gallon Reservoir
- 2 20 Gallon Reservoir Lid
- 3 Porthole Cover
- 4 Pre-assembled Legs W/ Click Clamps
- 5 Y-Filter Assembly
- 6 Pre-assembled Drain Elbow
- 7 Pump
- 8 Pre-assembled Pump Feed
- 9 6 Drain Fittings
- 10 6 U Lines
- 11 Net Pots
- 12 Rootguards
- 13 (48) 180° Aerojet Sprayers
- 14 1 Packet Of Screws
- 15 1 Roll Of Teflon Tape

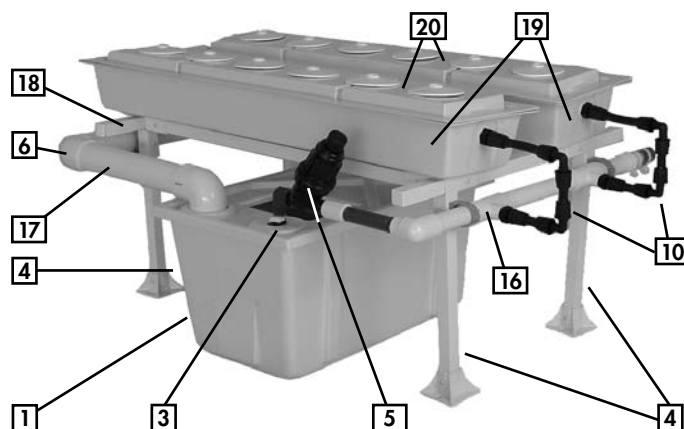
Box 2 of 4

- 16 Six Tray Aerojet Feed Manifold
- 17 Six Tray Aerojet Drain Manifold
- 18 Six Tray Aerojet Aluminum Bench (With 2 Sidebars, and 2 Crossbars)

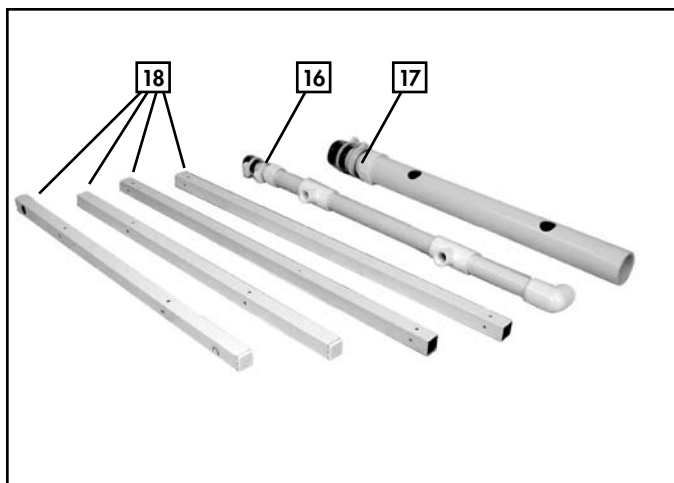
BOX 1 Reservoir box



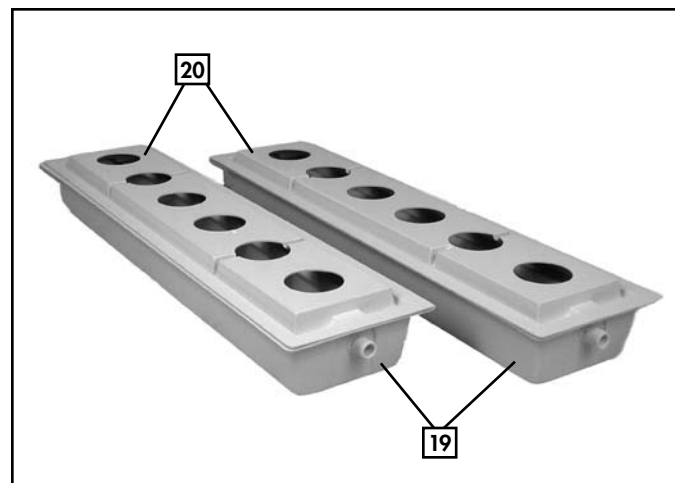
* TWO TRAY SYSTEM SHOWN



BOX 2 Feed and drain box



BOXES 3 AND 4 Tray boxes



Box 3 of 4

19 3 Trays With Internal Feed Manifolds

20 3 Lids

Box 4 of 4

21 3 Trays With Internal Feed Manifolds

22 3 Lids

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Aerojet 6 Tray Assembly

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- 3 Insert the crossbars into the closed end of the connectors; this will link together the 2 sidebars.
- 4 Look carefully at your bench; each side should have 2 clamps facing out from the legs. The right side should have the smaller 1" clamps, and the left side should have the larger 2" clamps. Make sure that the bench is square, and that all of the screw holes line up. Install the remaining screws into each hole.
- 5 Your bench is now assembled and you are ready to begin assembling the rest of your system.
- 6 Install the 1" PVC feed manifold onto the right side of the bench, using the clamps on the legs. The elbow end of the feed manifold should be at the front end of the bench (marked A), turn the elbow so that it faces in towards the center of the system. This should turn the tees on the manifold so that they face away from the system.
- 7 Next attach the 2" PVC drain manifold to the left side of the bench, make sure that the open end of the manifold faces towards the front of the system (marked C). The holes that are drilled along the drain manifold should face up; the drain outlets from the trays will be positioned into these holes.
- 8 Now locate the Y-Filter assembly, use the Teflon tape to carefully coat the male threads on the attached nipple. Make sure to wrap the Teflon tape around the nipple in the direction of the threads.

- 9 Once the nipple is sufficiently coated with Teflon screw it into the elbow on the feed manifold. Hand-tighten the Y-Filter assembly into the elbow, taking care not to over tighten it. Make sure that when you are done tightening the Y-Filter the filter faces up and the elbow at the end of the Y-Filter faces down.
 - 10 Thread the pump feed onto the outlet side of the pump.
 - 11 Place the pump at the bottom of the reservoir. The pump is fully submersible and will operate at the bottom of the reservoir.
 - 12 Position the reservoir underneath the front of the bench, and place the lid on top of the reservoir.
 - 13 Position the pump so that it is directly underneath the front right hole in the reservoir lid. Push the pump feed up through this hole.
 - 14 Attach the other end of the pump feed to the elbow on the Y-Filter assembly. Use the attached hose clamp to seal the pump feed around the elbow.
 - 15 Run the power cord from the pump out through the remaining hole on the right side of the reservoir lid.
 - 16 Now slide the drain elbow onto the open end of the drain manifold. Position the other end of the drain elbow into the left side hole on the reservoir lid. This will allow the drain manifold to drain back into the reservoir.
- NOTE:** At this time your reservoir should be positioned squarely underneath your bench, your pump should be inside your reservoir with the pump cord running out of the hole, and your feed manifold should be attached to the pump by way of the Y-Filter and pump feed. You should also have your drain elbow attached to your drain manifold, and your elbow should be positioned in the reservoir. Make sure everything is tight and lined up before moving on.
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Maintenance Procedures

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Facsimile (480) 777 2015



Aerojet 6 Tray Expansion™

The Aerojet expansion units are the ideal way to build upon your existing Aerojet system. This kit will add an additional 6 trays for up to 36 more plant sites.



* Two Tray System Shown

Features:

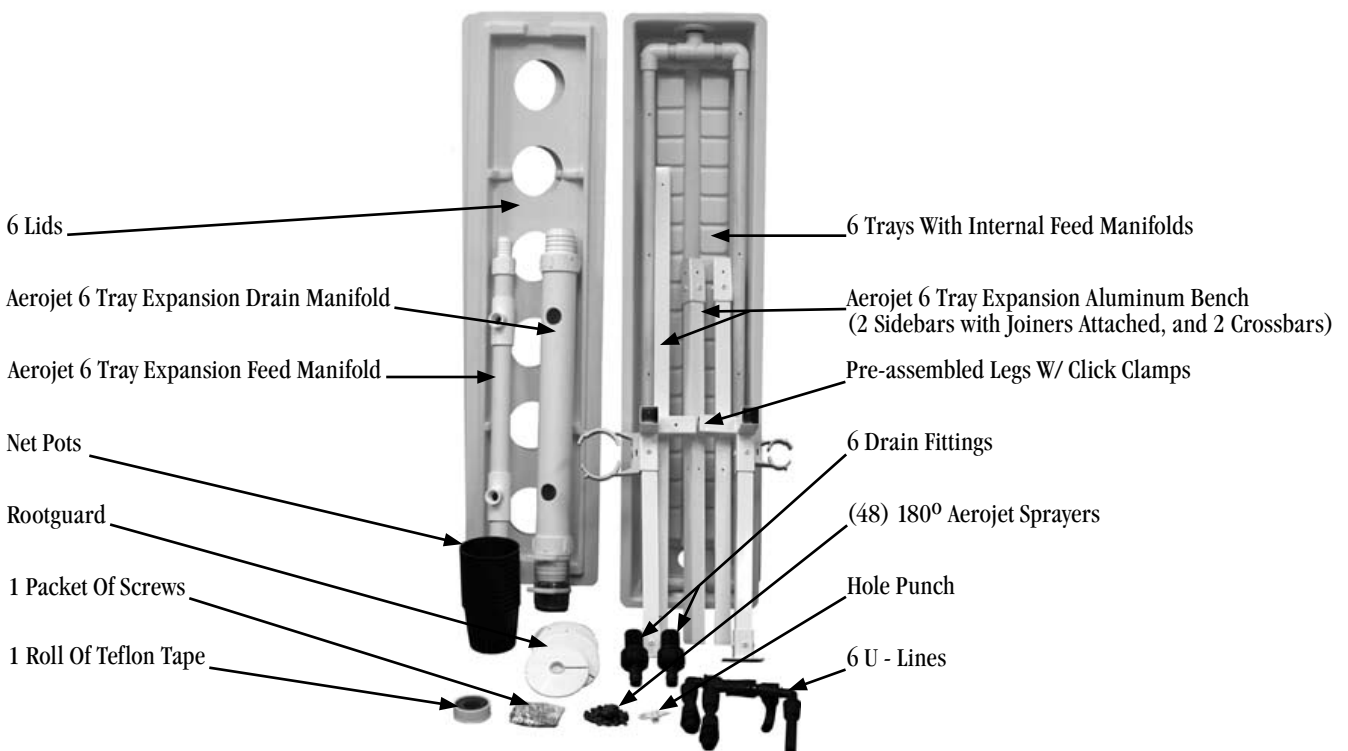
- Aeroponic feed method

Includes:

- Submersible pump with 2 year manufacturer's warranty
- 42 x 8 grow trays

System is contained within three boxes, before you start assembling your system; pull all of the parts out of your boxes. Check with the system components list and make sure that you have all of the necessary parts.

Aerojet 6 Tray Expansion™ Components



NOTE: Systems contain some additional replacement parts

* Two Tray System Shown

The Aerojet Expansion Module is designed to be used in conjunction with an existing Aerojet System. The Expansion Module allows you to enlarge your system with minimal upgrades. Before you begin make sure that your Aerojet System is unplugged, and that the water is drained out of the system. You will want to pick the back end of your system up a few inches in order to make sure that all of the water can drain back into the reservoir.

For correct installation of your new Aerojet Expansion Module follow these directions carefully. We have made every effort possible to deliver a complete system to our customers. However some assembly by the customer is necessary. This assembly can be successfully completed with the use of a flat head screwdriver, an electric Phillips head screwdriver, and the ability to follow directions.

- 1 Locate the four legs from inside the their box, notice that the legs are color coded and labeled.

Red = Front right leg with (1" clamp)
Blue = Back right leg with (1" clamp)
Yellow = Front left leg (with 2" clamp)
Green = Back left leg (with 2" clamp)

The sidebars are also labeled to show the position of each leg. Notice that there are two joiners at the front of the of the sidebars, these will be needed to attach your Expansion Module to your existing Aerojet System.

- 2 Slide the sidebars through the open end of the legs; use the labels and markings on the sidebars to position each leg. Install a screw in each leg to connect it to the sidebars.
- 3 Insert the crossbars into the closed end of the connectors; this will link together the 2 sidebars.
- 4 Look carefully at your bench; you should have a clamp facing out from each leg. The right side should have the smaller 1" clamps, and the left side should have the larger 2" clamps. Make sure that the bench is square, that the two sidebar joiners are at the front of the system, and that all of the screw holes line up.

- 5 Line the front of your Expansion Module up with the back of your existing Aerojet System. Use the joiners attached to the front of the sidebars to connect the Expansion Module to your existing Aerojet System. You will have to use an electric screwdriver to drive the screws through the joiners and into the sidebars of your existing system. This will connect your Expansion Module securely to your existing Aerojet System.

- 6 At this time install the remaining screws into each hole in your bench.
- 7 Your bench is now assembled and you are ready to begin assembling the rest of your system.
- 8 Carefully remove the plugs out of the Hydroflex adaptors at the ends of your feed and drain manifolds of your existing Aerojet System. To do this you will have to loosen the hose clamps and pry the plugs out. A flat head screw driver works fine to do this.
- 9 With your plugs out of your Hydroflex adaptors you should have both of your manifolds ready, and you can begin to attach your Expansion Module manifolds to them.



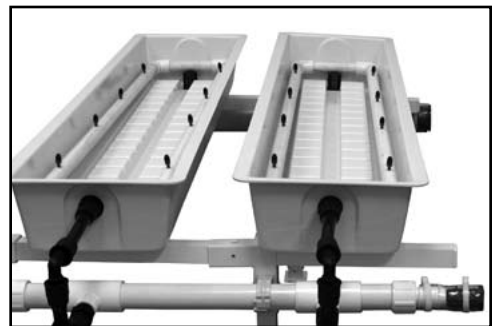
- 10 Install the 1" PVC feed manifold onto the right side of the bench, using the clamp on the leg. The open end of the feed manifold should be at the front end of the bench (marked A). Turn the tees on the manifold so that they face away from the system.
- 11 Carefully insert the open end of the Expansion feed manifold into the open end of the feed manifold of your existing Aerojet System. Tighten the hose clamp around the hose to seal the connection.
- 12 Next attach the 2" PVC drain manifold to the left side of the bench, make sure that the open end of the manifold faces towards the front of the system (marked C). The holes that are drilled along the drain manifold should face up; the drain outlets from the trays will be positioned into these holes.
- 13 Insert the open end of the Expansion drain manifold into the open end of the drain manifold of your existing Aerojet System. Tighten the hose clamp around the hose to seal the connection.
- 14 The trays should have the internal feed manifolds preinstalled in them. However you need to install the drain fittings in the trays at this time. Unscrew the nut off each drain fitting. Insert the drain fittings into the drain holes at the bottom of the trays with the screens facing up. Make sure that the rubber washers on the drain fittings rest on top of the trays. Screw the nuts back onto the drain fittings.
- 15 Place each tray on top of the bench, with the drain fittings inserted into the drain manifold.

NOTE: At this time wrap the male threads of each "U" line; make sure to wrap the Teflon tape around the nipple in the direction of the threads. Install these threads into the tees on the feed manifold. Make sure that the "U" lines are tight and that they face up and into the system.

- 16 You can now attach the "U" lines to the trays. Push the tubing into the fitting on the tray, and then tighten the fitting onto the tubing.
- 17 Make sure that your "U" lines are firmly attached to the feed manifold and the trays.
- 18 Now place the lids on top of the trays, insert a net pot into each hole of the lids. Gently place a root guard over each net pot.
- 19 At this time double check your work and make sure that everything is tightly fastened. Partially fill the reservoir, and run a wet-test.

NOTE: You will not have your sprayers installed at this time, but this will allow you to flush out any debris that might be in your system. Let the system run for several minutes. Then turn the pump off and remove any debris from the system.

- 20 Remove the net pots, rootguards and lids from on top of the trays so you can install an Aerojet Sprayer into each hole in the internal feed manifolds of the trays. Be extremely careful while doing this, these are small parts and can be broken if not handled correctly. Make sure that the sprayers are tight and turned so that they face towards the center of the tray.
- 21 Reinstall the lids, net pots, and rootguards.
- 22 At this time refill your reservoir, and run another wet-test. Carefully inspect your system for leaks, and make sure that your sprayers are directed towards the net pots. The manifolds within the trays are not glued so you are able to adjust the angle of the spray if needed.



Aeroponic Instructions:

- 1 Fill reservoir with water (purified or spring water is best).
- 2 Add nutrients as recommended per label. For seedlings and transplants, use nutrients at quarter to half normal strength.
- 3 Test pH and adjust to a level of 5.8 - 6.2
- 4 Fill each net pot approximately halfway full with grow rock; plant a seedling into each pot. Add more grow rock to the net pot to fill it to the top. The white root guards are supplied to use if you plan on growing without any grow media, they will position and support the plants. Root guards can also be used with grow media to block out light.
- 5 Place net pots into the holes in the lids of the trays.
- 6 Aeroponic growth can be attained by constantly running the pump and circulating water or by cyclical waterings. If cyclical waterings are desired consult your hydrogardening retailer for a cycle timer. For cyclical waterings the timer can be set for less watering during the evenings, or during rest periods for the plants. Optimum cycles are 1 minute on and 4 minutes off.

Maintenance Procedures

- 1 Replenish water as needed. Add nutrients with additional water at 25-50 percent of the original strength.
- 2 The reservoir needs to be changed periodically, change about every 7 to 21 days.
- 3 Follow nutrient label recommendations for nutrient strength at each growth stage.

Options for Your Aerojet

Try a matching powder-coated aluminum light stand or when you're ready to expand, simply plug an expansion module into the Hydroflex Expansion Module.

Light Stand

- HSL2 2 Tray Light Stand
- HSL4 4 Tray Light Stand
- HSL6 6 Tray Light Stand
- HSL8 8 Tray Light Stand

Aerojet Expansion Modules

- HSEXAJ2 2 Tray Aerojet Expansion Module
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For product support, call your retailer or contact Botanicare, toll free, 1-877-753-0404. Check out our website at www.botanicare.net for a complete list of outstanding products, including the latest in international systems, plastics and plant nutrients.

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Aerojet 8 Tray



* TWO TRAY SYSTEM SHOWN

Aerojet 8 Tray

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Your system is contained within four boxes, before you start assembling your system; pull all of the parts out of your boxes. Check with the system components list and make sure that you have all of the necessary parts.

Aerojet 8 Tray Components

Box 1 of 4

- 1 40 Gallon Reservoir
- 2 40 Gallon Reservoir Lid
- 3 Porthole Cover
- 4 Pre-assembled Legs W/ Click Clamp
- 5 Y-Filter Assembly
- 6 Pre-assembled Drain Elbow
- 7 Pump
- 8 Pre-assembled Pump Feed
- 9 8 Drain Fittings
- 10 8 U Lines
- 11 Net Pots
- 12 Rootguards
- 13 (64) 180° Aerojet Sprayers
- 14 1 Packet Of Screws
- 15 1 Roll Of Teflon Tape

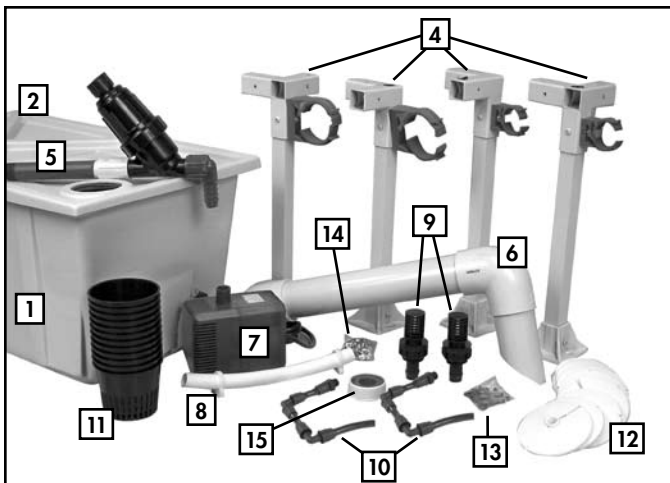
Box 2 of 4

- 16 Eight Tray Aerojet Feed Manifold
- 17 Eight Tray Aerojet Drain Manifold
- 18 Eight Tray Aerojet Aluminum Bench (With 2 Sidebars, and 3 Crossbars)

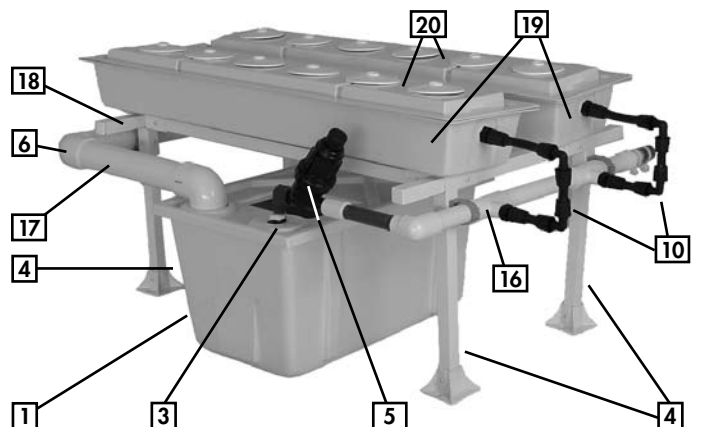
Box 3 of 4

- 19 4 Trays With Internal Feed Manifolds
- 20 4 Lids

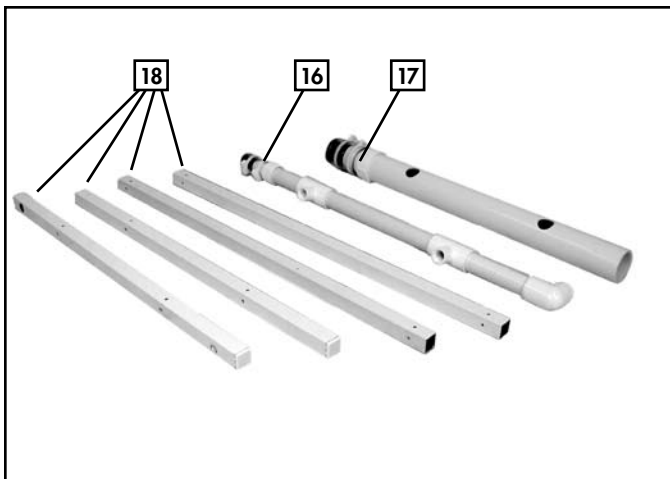
BOX 1 Reservoir box



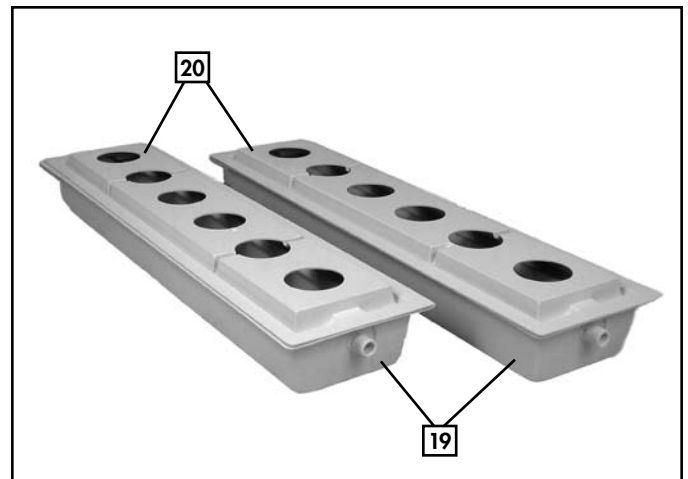
* TWO TRAY SYSTEM SHOWN



BOX 2 Feed and drain box



BOXES 3 AND 4 Tray boxes



Box 4 of 4

21 4 Trays With Internal Feed Manifolds

22 4 Lids

Systems contain some additional replacement parts.

For correct installation of your new Aerojet follow these directions carefully. We have made every effort possible to deliver a complete system to our customers. However some assembly by the customer is necessary. This assembly can be successfully completed with the use of a Phillips head screwdriver and by carefully following these directions.

Aerojet 8 Tray Assembly

- 1 Locate the six legs from inside the reservoir, notice that the six legs are color coded and labeled.
Red = Front right leg with (1" clamp)
Blue = Back right leg with (1" clamp)
Center = Center crossbar (leg with 1" clamp goes on right side sidebar)
Yellow = Front left leg (with 2" and 1" clamps)
Green = Back left leg (with 2" clamp)
Center = Center crossbar (leg with 2" clamp goes on left side sidebar)
The sidebars are also labeled to show the position of each leg.
- 2 Slide the sidebars through the open end of the six legs; use the labels and markings on the sidebars to position each leg. Install a screw in each leg to connect it to the sidebars.
- 3 Insert the crossbars into the closed end of the connectors; this will link together the 2 sidebars.
- 4 Look carefully at your bench; each side should have 3 clamps facing out from the legs. The right side should have the smaller 1" clamps, and the left side should have the larger 2" clamps. Make sure that the bench is square, and that all of the screw holes line up. Install the remaining screws into each hole.
- 5 Your bench is now assembled and you are ready to begin assembling the rest of your system.
- 6 Install the 1" PVC feed manifold onto the right side of the bench, using the clamps on the legs. The elbow end of the feed manifold should be at the front end of the bench (marked A), turn the elbow so that it faces in towards the center of the system. This should turn the tees on the manifold so that they face away from the system.
- 7 Next attach the 2" PVC drain manifold to the left side of the bench, make sure that the open end of the manifold faces towards the front of the system (marked C). The holes that are drilled along the drain manifold should face up; the drain outlets from the trays will be positioned into these holes.
- 8 Now locate the Y-Filter assembly, use the Teflon tape to carefully coat the male threads on the attached nipple. Make sure to wrap the Teflon tape around the nipple in the direction of the threads.
- 9 Once the nipple is sufficiently coated with Teflon screw it into the elbow on the feed manifold. Hand-tighten the Y-Filter assembly into the elbow, taking care not to over tighten it. Make sure that when you are done tightening the Y-Filter the filter faces up and the elbow at the end of the Y-Filter faces down.

- 10 Thread the pump feed onto the outlet side of the pump.
 - 11 Place the pump at the bottom of the reservoir. The pump is fully submersible and will operate at the bottom of the reservoir.
 - 12 Position the reservoir underneath the front of the bench, and place the lid on top of the reservoir.
 - 13 Position the pump so that it is directly underneath the front right hole in the reservoir lid. Push the pump feed up through this hole.
 - 14 Attach the other end of the pump feed to the elbow on the Y-Filter assembly. Use the attached hose clamp to seal the pump feed around the elbow.
 - 15 Run the power cord from the pump out through the remaining hole on the right side of the reservoir lid.
 - 16 Now slide the drain elbow onto the open end of the drain manifold. Position the other end of the drain elbow into the left side hole on the reservoir lid. This will allow the drain manifold to drain back into the reservoir.
- NOTE:** At this time your reservoir should be positioned squarely underneath your bench, your pump should be inside your reservoir with the pump cord running out of the hole, and your feed manifold should be attached to the pump by way of the Y-Filter and pump feed. You should also have your drain elbow attached to your drain manifold, and your elbow should be positioned in the reservoir. Make sure everything is tight and lined up before moving on.
- 17 The trays should have the internal feed manifolds preinstalled in them. However you need to install the drain fittings in the trays at this time. Unscrew the nut off each drain fitting. Insert the drain fittings into the drain holes at the bottom of the trays with the screens facing up. Make sure that the rubber washers on the drain fittings rest on top of the trays. Screw the nuts back onto the drain fittings.
 - 18 Place each tray on top of the bench, with the drain fittings inserted into the drain manifold.
 - 19 At this time Wrap the male threads of each "U" line in the same manner that you wrapped the Y-Filter nipple. Install these threads into the tees on the feed manifold. Make sure that the "U" lines are tight and that they face up and into the system.
 - 20 You can now attach the "U" lines to the trays. Push the tubing into the fitting on the tray, and then tighten the fitting onto the tubing.
 - 21 Make sure that your "U" lines are firmly attached to the feed manifold and the trays.
 - 22 Now place the lids on top of the trays, insert a net pot into each hole of the lids. Gently place a root guard over each net pot.

- 23 At this time double check your work and make sure that everything is tightly fastened. Partially fill the reservoir, and run a wet-test.

NOTE: You will not have your sprayers installed at this time, but this will allow you to flush out any debris that might be in your system. Let the system run for several minutes. Then turn the pump off and remove any debris from the system.

- 24 Remove the net pots, rootguards and lids from on top of the trays so you can install an Aerojet Sprayer into each hole in the internal feed manifolds of the trays. Be extremely careful while doing this, these are small parts and can be broken if not handled correctly. Make sure that the sprayers are tight and turned so that they face towards the center of the tray.
- 25 Reinstall the lids, net pots, and rootguards.
- 26 At this time refill your reservoir, and run another wet-test. Carefully inspect your system for leaks, and make sure that your sprayers are directed towards the net pots. The manifolds within the trays are not glued so you are able to adjust the angle of the spray if needed.

Important Pump Maintenance

Your new system is equipped with a high quality submersible pump, however to insure pump longevity routine maintenance is required. Please refer to the information sheet within the pump box for maintenance procedures. This sheet also has warranty and contact information. Keep this information in the event it is needed in the future.

Aeroponic Instructions

- 1 Fill reservoir with water (purified or spring water is best)
- 2 Add nutrients as recommended per label. For seedlings and transplants, use nutrients at quarter to half normal strength.
- 3 Test pH and adjust to a level of 5.8 - 6.2
- 4 Fill each net pot approximately halfway full with grow rock; plant a seedling into each pot. Add more grow rock to the net pot to fill it to the top. The white root guards are supplied to use if you plan on growing without any grow media, they will position and support the plants. Root guards can also be used with grow media to block out light.
- 5 Place net pots into the holes in the lids of the trays.

Aeroponic growth can be attained by constantly running the pump and circulating water or by cyclical waterings. If cyclical waterings are desired consult your hydrogardening retailer for a cycle timer. For cyclical waterings the timer can be set for less watering during the evenings, or during rest periods for the plants. Optimum cycles are 1 minute on and 4 minutes off.

Maintenance Procedures

- 1 Replenish water as needed. Add nutrients with additional water at 25-50 percent of the original strength.
- 2 The reservoir needs to be changed periodically, change about every 7 to 21 days.
- 3 Follow nutrient label recommendations for nutrient strength at each growth stage.

Options for Your Aerojet

Try a matching powder-coated aluminum light stand, or when you're ready to expand simply plug an expansion module into the Hydroflex™ Expansion Module.

Light Stands

- HSLS2 2 Tray Light Stand
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* Two Tray System Shown

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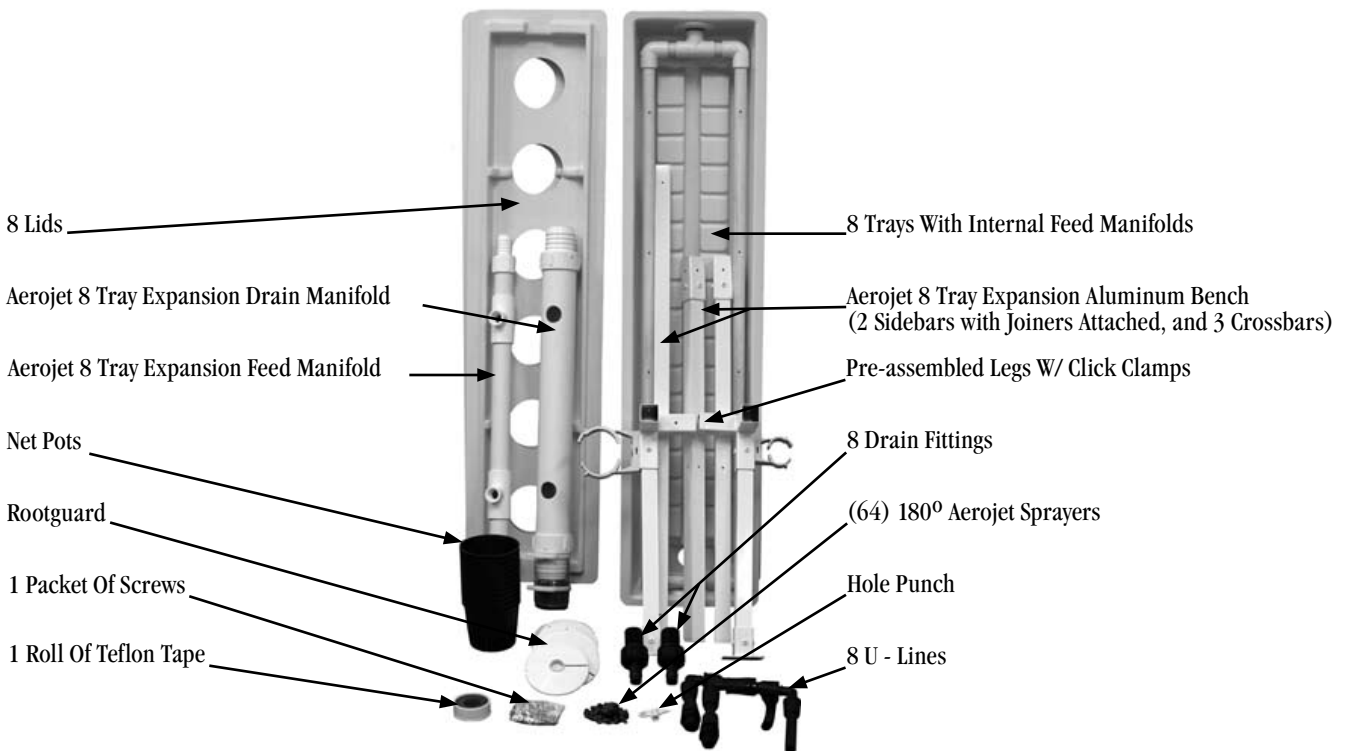
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- 42 x 8 grow trays

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Aerojet 8 Tray Expansion™ Components



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- 2 Slide the sidebars through the open end of the legs; use the labels and markings on the sidebars to position each leg. Install a screw in each leg to connect it to the sidebars.
- 3 Insert the crossbars into the closed end of the connectors; this will link together the 2 sidebars.
- 4 Look carefully at your bench; you should have a clamp facing out from each leg. The right side should have the smaller 1" clamps, and the left side should have the larger 2" clamps. Make sure that the bench is square, that the two sidebar joiners are at the front of the system, and that all of the screw holes line up.
- 5 Line the front of your Expansion Module up with the back of your existing Aerojet System. Use the joiners attached to the front of the sidebars to connect the Expansion Module to your existing Aerojet System. You will have to use an electric screwdriver to drive the screws through the joiners and into the sidebars of your existing system. This will connect your Expansion Module securely to your existing Aerojet System.
- 6 At this time install the remaining screws into each hole in your bench.
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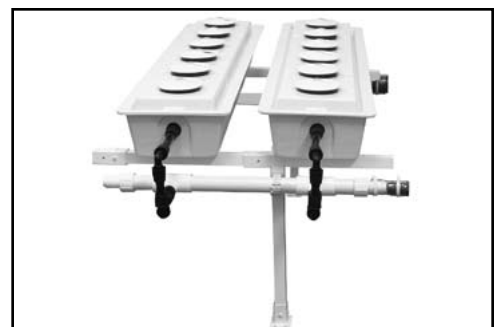
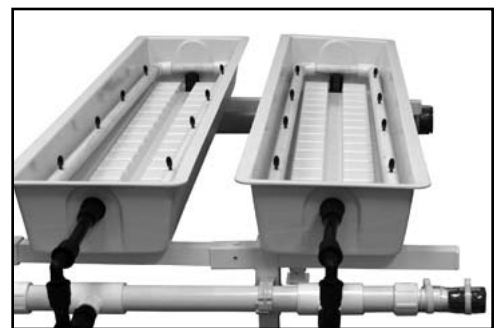
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