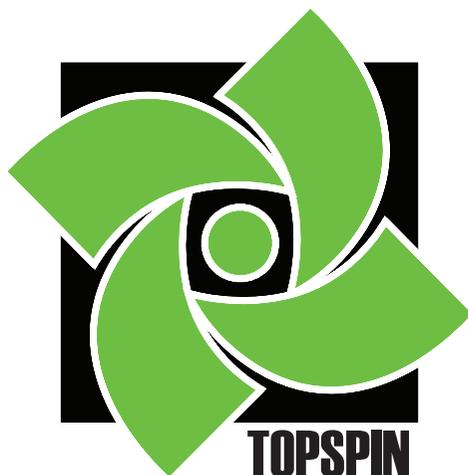
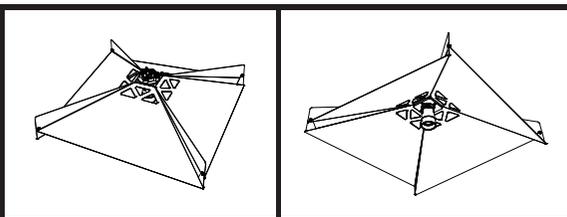


TOPSPIN

clever planting



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Dear customer, first of all we would like to thank you for the trust you have placed in us when you bought the TopSpin reflector. We honestly believe it is a great product and we hope that you will be completely satisfied with its use .

You're lucky, the reflector lying in front of you is without any doubt exceptional, ahead of other reflectors available on the market in all respects relevant for growers. TopSpin is the only reflector on the market that is especially designed to provide dynamic illumination of your plants. It is also the only reflector which shape is adapted to the characteristics of high pressure sodium lamps and facilitates a practically uniform illumination of the growing area. These features are truly unique and innovative and TopSpin is the first patented reflector for growing plants.

Please read thoroughly the enclosed instructions manual and observe general safety precautions during installation and operation. Although our product warranty policy is one of the pillars of good relationships with our customers, we would not be able to meet a refund or exchange claim if the product had not been handled according to these instructions. Thank you for your understanding and we hope that you will enjoy your cultivation with TopSpin.

When you replace your old reflector with TopSpin, you are pushing the boundaries of your indoor garden a bit further again.

We wish you much success with growing. May your plants bring a smile to your face! On behalf of TopSpin, xpapousek



As mentioned in the introduction, the complaint policy of our company is one of the basic pillars of customer relations. If you have any problem with our product, feel free to contact us. And not necessarily with some defect, any customer feedback is welcomed.

Do you feel that the reflector could be better? Do you have an idea how to improve it, or simply there is something that bothers you about it? Do not worry and contact us, the result will be a better reflector for all the customers. And what's more, if your idea is really good and we decide to implement it, you will be rewarded and become a VIP customer with lots of discounts and other benefits.

The TopSpin is sold with a two-year warranty when used according to the instructions manual. Please send us any complaints in writing, clearly describing the defect(s) and attaching photographs if possible. If the complaint is legitimate, we will offer you an exchange or a refund.

All user reviews and complaints are reported on our website, as we are striving to maximize transparency to you, our customers. We believe that your experience with the TopSpin reflector will be trouble free and you will become another of our happy customers.

address: Jan Papoušek, Štichova 593, Praha 4, 149 00

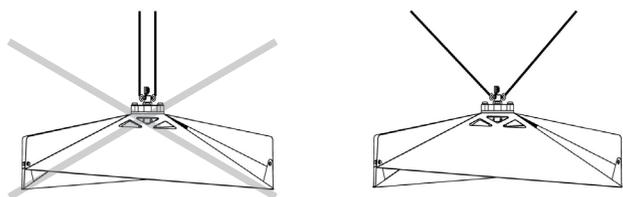
phone: +420 728 189 318

email: xpapousek@gmail.com

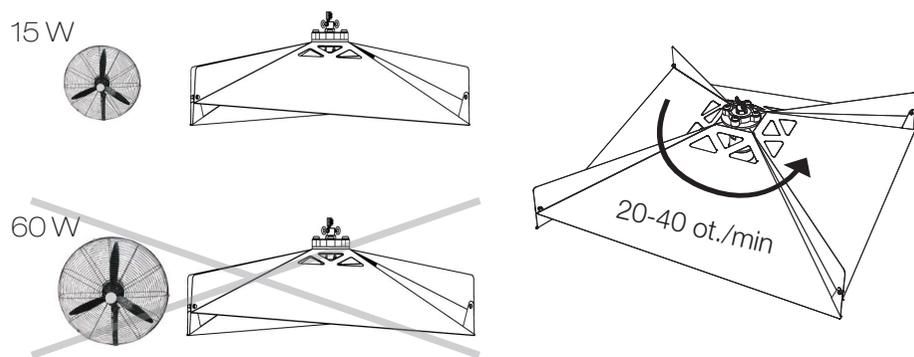


Once you have successfully assembled the entire reflector according to the previous instructions manual it needs to be properly installed in the growing box.

The reflector should be in a stable position after hanging and should not have too much freedom of movement. The quality of a suspension can be tested, by slowly rotating the sheets with your finger (when the power would be directed around the perimeter). The reflector should not sway too much in this test, it should be rotated only. For stability, the reflector should be hung in the widest possible base. It is also good to test rotation in room temperature, in the cold the bearing can be slightly stiffer.



Next step is the most important part of the installation. To avoid standing in the growing room for three months and rotating the reflector manually, use a table fan to drive the rotation of the reflector, and the air will spin it to the desired speed. Recommended fan power is around 15 watts. One called "clip-on fan" serves very well for this purpose. Place the fan close to the reflector so that the air flow is directed in the direction of rotation of your reflector. The recommended direction of rotation when viewed from above is counterclockwise. The recommended speed of rotation of the reflector is 20-40 rpm. Do not try to make the reflector rotate faster, it is worthless. The speed of rotation is preferably controllable with the level of speed of the fan, or the fan-sheet distance.



TopSpin is a result of long-term development. Its shape and characteristics are based on the practical experience of growers and the knowledge of elementary needs of plants.

The main advantage of TopSpin is that it produces a "dynamic illumination", which some of you may have encountered in the form of so-called light-movers. Dynamic rather than static illumination has several advantages:

1. efficient lighting of larger areas
2. elimination of light hotspots
3. illumination of the plant in more depth

TopSpin produces dynamic illumination by rotating its reflective surface. Because the reflective surface is not rotationally symmetrical to the axis of rotation, the angle of incidence and reflection of light rays changes during the rotation. The reflector thus glints toward plants. This scattered light has all the advantages of dynamic lighting mentioned above.

Another advantage of the reflector is the outlet of the heat away from the lamp. As you know the lamp generates a large amount of residual heat, which is in most cases undesirable in the growing area. The misalignment of the reflector sheets of the TopSpin reflector solves, at least partially, this problem. The rotation of the reflector around the lamp generates a blow of air which supports the natural conduct of hot air upwards, away from the plants. The vertical orientation of the lamp allows the placement of ventilation slots close to it. TopSpin once again has an advantage compared to traditional reflectors, where the reflector covers the lamp almost like a lid, under which residual heat, is kept, to a little satisfaction of your plants.

The last important advantage of the TopSpin reflector is the actual shape of its sheets combined with the location and orientation of the lamp. These characteristics were derived from one of the basic needs of growers - to have approximately the same light intensity in every corner of the garden. TopSpin have this quality even at rest. In the designing of the shape of the reflector, the spatial function of the light energy emitted by the bulb was taken into account. Then, according to the study "Exploring Reflection : Designing Light Reflectors for Uniform Illumination" © 2000 Society for Industrial and Applied Mathematics " the final shape of the shield was proposed. Final reflective characteristics were verified by measurements using a photometer.



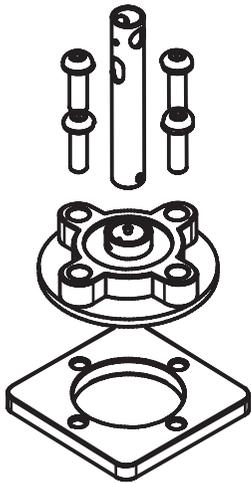
INSTRUCTIONS FOR ASSEMBLING (A)



Plug the cable into the socket.



Screw the plate with the sealing to the socket.



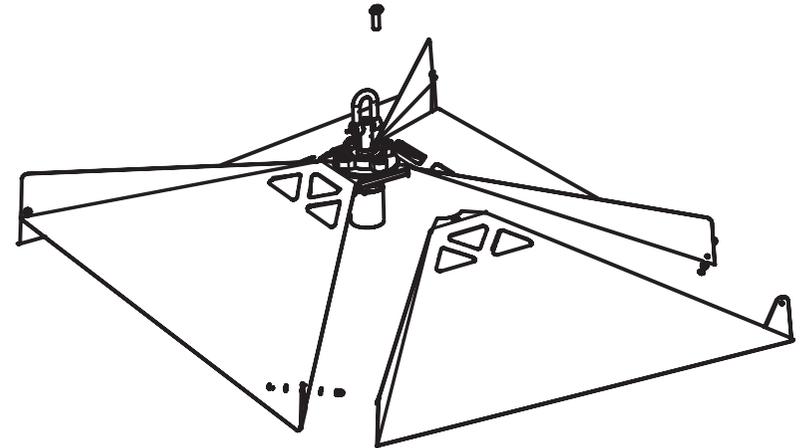
Assemble the parts as shown. Secure the pipe using the Allen screws in the bearing.



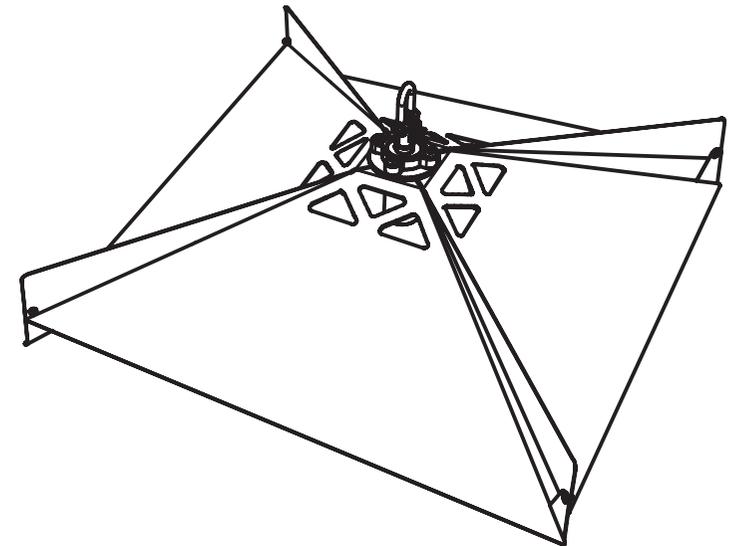
Connect both sets now. The free end of the cable has to be mount in the screw terminal.



INSTRUCTIONS FOR ASSEMBLING (B)



Now remove the screw from the bearing plate , insert the sheets and screw tight once again. Assemble plates using small screws on the opposite side.



Now the screen is ready for hanging.