

XTRASUN™

High Intensity Fixture

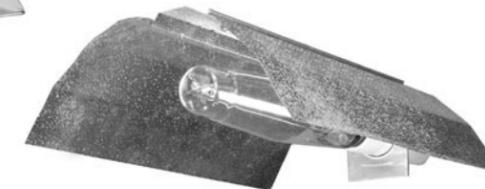
INFORMATION and OPERATING INSTRUCTIONS

Congratulations on your purchase of an XTRASUN SERIES High Intensity Fixture. With proper use and care according to these guidelines, you should get excellent results.

Xtrasun Series™ High Intensity Fixtures and the All System™ Cord Set are compatible with most high intensity lighting fixtures.



XT1AC



XT2AW



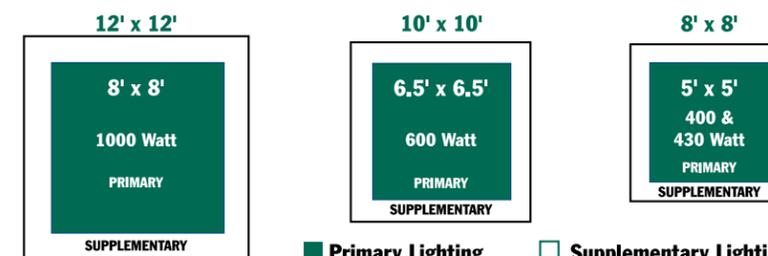
XT6AC

WARNING! FAILURE TO FOLLOW OUR GUIDELINES COULD RESULT IN ELECTRICAL SHOCK

Check for shipping damage

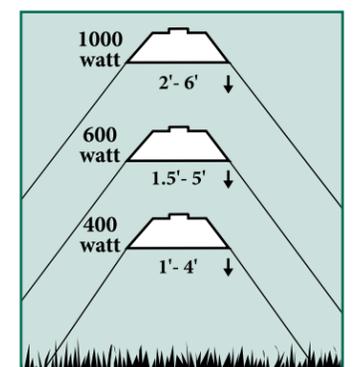
Upon delivery of your equipment, note any dented, deformed, or opened boxes to the delivery company (usually United Parcel Service). If any part of your order is broken or damaged, immediately notify your retailer.

Horizontal Fixtures Recommended Area Coverages



■ Primary Lighting □ Supplementary Lighting

RECOMMENDED REFLECTOR MOUNTING HEIGHT ABOVE PLANTS

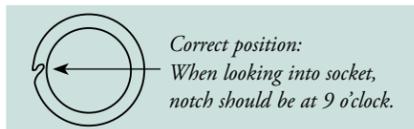




All System™ Cord Set

Hanging your Fixture

- 1 Make sure your unit is unplugged.
- 2 Spread hangers and insert into the two holes on top of the fixture. The open ends of the hooks face into the fixture.
- 3 The fixture cord should point upwards. (See illustration above).
- 4 If you have received a bulb that is designed to be operated in a horizontal position only (high output halide bulbs only — small tab on side of screw base), your socket must be a special yellow, position-oriented one that holds the arc tube correctly for horizontal operation. Operation in any other orientation will cause substantial reduction in bulb life and lumen output. Position-oriented bulbs are the high output halide bulbs. Sodium and standard halide bulbs operate in any socket or position.



- 5 Hang the fixture from a strong cord or chain from both ends. Make sure you have hooks screwed solidly into the studs in the ceiling. If you cannot locate the studs, insert expansion anchors into the ceiling. The hooks should be rated to hold at least 50-lbs. each.
- 6 Use the cable tie provided to secure the electrical cord to the hanging chain so that it doesn't tilt the fixture.
- 7 Route the electrical cord up and away from the light to another hook (not provided) and down the wall to the ballast.
- 8 Use window cleaner to clean debris and fingerprints from the bulb. Make sure to remove all excess moisture before installing.
- 9 Making sure the unit is still unplugged, screw the bulb in carefully so it is firm but not too tight. Make sure the ballast is sitting on a firm, dry surface.

Operation

Bulb position: Operation in any other than recommended position may cause reduction of bulb life and lumen output.

Warm-up & Restart time: Once your unit is on, the bulb will require a few minutes to reach full brightness. Also, in the event of a momentary power interruption, the bulb will not restart immediately.

Note: Some variations in the color of the light emitted by your bulb are not unusual, especially during the first 100 hours of operation.

Setting your All System™ Cord Set

(not included with fixture)

Xtrasun™ fixtures are compatible with the All System™ Cord Set, and most other flat socket mounting arrangements. See the Power Supply / Ballast instructions for proper lamp type and follow the charts below.

Xtrasun Air Coolable Reflectors

| Bulb Type | Cylinder Hole | Disc Hole |
|----------------------------|---------------|-----------|
| Halide 400W / 1000W — BT37 | 2 | B |
| Sodium 1000W | 1 | B |
| Halide 1000W — T30 | 1 | B |
| Sodium 600W | 2 | A |
| Sodium 430W | 2 | A |
| Sodium 400W | 2 | B |
| Son Agro 430W | 2 | A |

Xtrasun Aluminum Wing Reflector

| Bulb Type | Cylinder Hole | Disc Hole |
|----------------------------|---------------|-----------|
| Halide 400W / 1000W — BT37 | 2 | A |
| Sodium 1000W | 1 | B |
| Halide 1000W — T30 | 1 | B |
| Sodium 600W | 2 | A |
| Sodium 430W | 3 | B |
| Sodium 400W | 3 | B |
| Son Agro 430W | 3 | B |

Unplug Fixture and Allow to Cool Before Touching or Moving

Electrical Usage: To figure how much amperage your unit is using, simply use the following formula: Wattage ÷ Voltage = Amperage. The average household circuit breaker is rated at 20 amps. If the total amperage drawn from that circuit approaches 20 amps, the circuit breaker will trip off. You probably have one or two circuits per room. If you have a 1000 watt unit running off a 120 volt circuit, it will draw approximately 9 amps. For the cost of electricity to run your grow light, we recommend that you check with your local power company, since the cost will vary depending on the geographical area. A 1000 watt light will probably cost 10¢ per hour to operate. Make sure your household circuits or fuses are in good condition and are rated at least 33% over what the load will be (e.g. no more than 15 amp load on a 20 amp circuit). Drawing too much current can overheat the wiring due to low voltage or insufficient amperage in that household circuit. Extension cords should not be used with the systems.

Bulb Replacement

Halide bulbs should be replaced after approximately 1–1½ years of continuous use (16-hour days). Sodium bulbs should be replaced after approximately 2 years of use. At these points, light output and electrical efficiency have decreased so that replacement is recommended. Do not run bulbs continuously beyond their rated lives. Always unplug your system and allow bulb to cool before changing the light bulb.

Some Precautions

- ❑ Do not touch the power supply when it is plugged in.
- ❑ Always unplug the ballast from the outlet and allow all components to cool when moving or replacing parts on your light.
- ❑ Small pieces of glass or metal inside a high intensity bulb are not a sign of trouble. This is common with high intensity bulbs. Don't be concerned unless the bulb does not work.
- ❑ Do not try and move the ballast by pulling the cord — use the handle.
- ❑ Never pull the cord to unplug the system. Pull the plug only.
- ❑ Do not run a bulb beyond recommended replacement schedule — see Bulb Replacement.
- ❑ Do not look directly into the bulb during startup or operation.
- ❑ Avoid scratching your bulb, subjecting it to undue pressure, or getting it wet when it is hot, as any of these could cause it to break.
- ❑ We recommend a lens for all light systems in areas where water is being used.
- ❑ In the event of bulb breakage, shut off power immediately to prevent exposure to ultraviolet energy, which may be harmful to eyes and skin.
- ❑ Protect the bulb from moisture. Don't mist plants unless your bulb is behind the protective lens.
- ❑ Always make sure there is adequate air circulation (use a fan) in your growing area. Keep the room temperature below 95°F.
- ❑ Your plants should be far enough away from the bulb to prevent heat damage. If the leaves wilt or show other signs of burn damage, the light is too close. Usually about 2 to 3 feet is right for a 1000-watt light. Less distance is allowable for lower wattages.
- ❑ Use caution when moving your plants from lower light situations (windows or fluorescents) to a high intensity halide or sodium. They can get sunburned. Keep the light an extra foot away and increase the number of hours of exposure over a couple of days.
- ❑ Always use a heavy duty three-prong grounded timer, rated for at least 15 amps. Many 7-day digital timers are not rated for 1000 watt lights.
- ❑ Each ballast will operate only on a specific wattage and type of light— do not interchange it with any different wattage or other type of light. Interchange only between identical units with units unplugged.

TROUBLESHOOTING

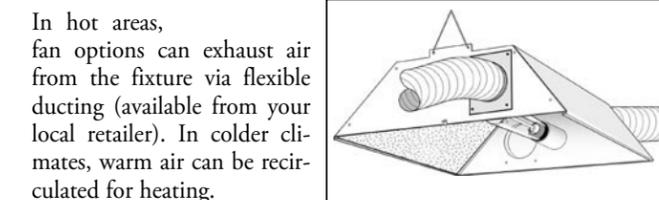
If your fixture does not work, try the following step-by-step procedures

- 1 Check your electrical source. Make sure the unit is plugged in properly and that the breaker is not tripped or the fuse blown. (The ballast should hum slightly if it's receiving electricity.)
- 2 Check your grounded timer—plug the unit directly into your outlet.
- 3 Unplug the unit and make sure the lamp is screwed in all the way.
- 4 If you have another working identical unit, unplug it and interchange bulbs to identify the faulty part.
- 5 Make sure you have given the unit plenty of time to restart (15–30-minutes) if it was turned off.

XT1AC Cooling Suggestions



Recirculating or exhausting air is the best way to control temperatures in growing environments.



In hot areas, fan options can exhaust air from the fixture via flexible ducting (available from your local retailer). In colder climates, warm air can be recirculated for heating.

XT6AC — Cooling Suggestions



Fan not included

THE XTRASUN™ GUARANTEE

All light fixtures are guaranteed against defects in workmanship or materials to the original owner for one year from the date of purchase. They come with a one year repair or replacement warranty, unless otherwise specified. Misuse, abuse, or failure to follow instructions are not covered. Call the place of purchase to get a return authorization for the faulty part. Send only that part. Unauthorized returns will not be accepted. Save your receipt/invoice — a copy is required for all warranty work.