



Congratulations on the purchase of your new induction grow light. Pentair is proud to offer Inda-Gro lights to our customers as they have proven themselves to be an energy efficient and high performance addition to any of our indoor aquaponic gardens plant lighting needs.

Please familiarize yourself with these simple instructions and with a little care and maintenance this light will provide you with many years of healthy and productive harvests.

Installation: Your light comes fully assembled and ready to plug into a standard household 120 volt receptacle. Your light is capable of being run on any supply voltage between 110-277 volts, 50/60 Hz AC. If you wish to plug the light into an outlet that is not 110 volt supply rated you would cut the existing male plug off of the cord and put on the proper configuration male cord end for the supply voltage you have available. There is no need to rewire anything in the ballast compartment as the ballast will automatically detect the supply voltage and run the lamp as long as the supply voltage falls within the rated voltage range.

Your light comes equipped with two steel V Clips on the top of the fixture. These should be used to suspend the fixture with an appropriately rated cable or chain (not included) to a structural support capable of safely supporting the 15 lb. (6.8 kg) weight of the light.



Once power is switched on, the lamp will light instantly. Full brightness is achieved within 4-5 minutes as the surface of the glass rises to its optimum operating temperature of ~200°F (93°C). Care should be taken to not direct air from any fans directly onto the glass surface as this may reduce glass surface temperature which may cause a reduction in lamp intensity output.

Your light is rated for indoor and damp location environments such as greenhouses. This rating (IP65) means the fixture can be subjected to moisture but should not be installed where it would be submerged under any liquids or subject to extended periods of direct spray. There is no need to add any ventilation to the lamp or driver housing as it is heatsinked to remove heat from the circuit board. With an ambient grow room temperature of 75°F (23°C) the temperature on the surface of the driver housing should read ~ 110°F (43°C).

Never plug or unplug the lamp from the ballast while energized as it may damage the internal driver circuit. There are no user serviceable parts in these lights. If the light fails to work over the prorated 10 year term of the warranty you should contact Inda-Gro at the phone number or website listed below. Be prepared to give the operator the serial number of the fixture which is located on the ballast cover when you contact Inda-Gro.

Maintenance: Make sure the lamp is cool to the touch than carefully wipe down the lamp and reflective material with a microfiber towel. This will remove any dust or residue from spray surfactants that can collect on the reflectors. Regular cleaning of these surfaces will maintain optimum lamp intensities at the canopy.

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The Pentair Series of Induction Grow Lights

Manufactured by:

Inda-Gro Induction Grow Lights

Toll Free: 877.452.2244 or 619.266.4004

www.inda-gro.com



Maintenance: If the surface area has been stained from spray surfactants a small amount of glass cleaner can remove stubborn spots on the reflector and/or the glass. Never use any harsh chemicals or detergents on the reflectors as it can damage the reflector surface. Microfiber towels can be purchased at any auto parts supply store.

Caution: If a lamp breakage should occur, never come into direct skin contact with the small ball of mercury amalgam inside the glass. This should be swept up and properly recycled. Additional clean up information and Material Safety Data Sheets may found in the technical bulletins section @ : www.inda-gro.com

Plant Area Coverage: The Pro-420-PAR light does not require changing the lamps between the vegetative and flowering states. This lamp emits a broad spectrum which can take your plants from propagation through final flowering with one lamp. Typical installations for vegetative crops would employ a 24"-36" lamp to canopy spacing. For flowering applications the distance between lamp to canopy can be reduced to 12" - 18" as the negligible amount of heat that these lamps produce will not damage the canopy at these distances.

With the rectangular geometry of the light the effective coverage aspect ratio to canopy spacing is 1.25(L) : 1 (W). What this means is that an effective area of canopy coverage when the lamp to canopy spacing is 36" would be a 60"(L) x 48" (W). If the lamp to canopy spacing is 18" the effective area coverage becomes 48" (L) x 40" (W). Adding lights will enhance the effective area coverage at the edges of the plant media bed as the values are increased by the interlacing light distribution between the light.

Specifications:

Universal voltage driver operates on 120-277volt 50/60Hz supply circuits

Current Draw @ 120 volts: 3.6 amps - Current Draw @ 240 volts 1.8 amps

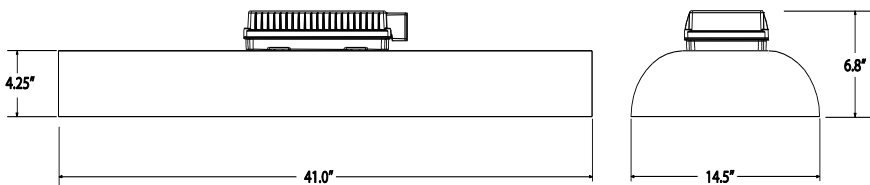
Min/Max operating ambient temperature ranges: 32-130° F (0-54° C)

Wattage @ the plug: ~420 watts (wattage may vary +/- 10% due to lamp glass temperatures).

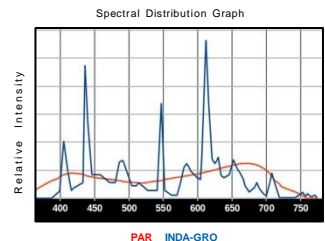
Thermal Contribution: 1500 btu/hr.

Power Factor: 0.99

THD: <10%



Product Weight: 15 lbs.
Shipping Weight: 23 lbs.



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AQUATIC ECO-SYSTEMS™

Warranty and Returns Information

Pentair hereby extends the Inda-Gro Induction Lighting Systems Warranty Terms & Conditions as follows:

Inda-Gro Induction Lighting warrants that their fixtures, ballasts, and lamps will be free from defects in materials and workmanship for a period of ten (10) years from the Pentair date of sale. Ballasts, lamps, and fixtures demonstrated to be defective within the warranty period will be repaired or replaced at Inda-Gro's discretion, prorated cost based upon original date of sale provided the fixtures are installed and operated in accordance with manufacturer's recommendations. This warranty applies only to Inda-Gro products to be used within the US, Canada, Mexico or other countries as specified by Pentair or their agent Inda-Gro Induction Lighting. The warranty is non-transferable and is available to the Original Buyer having purchased the products directly from Pentair Aquatic Eco-Systems.

For warranty repair or replacement contact Inda-Gro directly @ 877.452.2244 or @ orders@inda-gro.com. Supply your name, the original Pentair invoice number, date and the serial number of the light (this number is located on the ballast cover) so Inda-Gro may issue a Return Materials Authorization (RMA) which authorizes the fixtures for return to Inda-Gro. Do not ship any fixtures to Pentair. Do not return any fixtures to Inda-Gro without an RMA. They will not be accepted. Do not remove any fixture labeling as it will void warranty claims under our proof of purchase requirements.

Inda-Gro reserves the right to examine a failed fixture and reserves the right to be the sole judge as to whether any housing, lamp and/or ballast is defective and covered under this warranty.

Neither Pentair or it's agent; Inda-Gro Induction Lighting will be held liable for:

- Problems resulting from external causes such as accident, abuse, misuse, mishandling, tampered with, negligence, fire, water damage, theft, vandalism, riot, explosion, natural disaster, or other external causes unrelated to product performance.
- Any consequential damages claims beyond the value of the Inda-Gro products sold on that project.
- Conditions demonstrating misuse, faulty installation, misapplication, extreme environmental conditions beyond those defined in the product specification, under/over voltage situations, lack of compliance with applicable instructions, improper or inadequate maintenance or installations, negligence, accident, or tampering. Note ballast ratings for limits on operating temperatures.
- Situations in which Inda-Gro lamps and/or ballasts are replaced with those from other manufacturers.
- Products not manufactured by Inda-Gro Induction Lighting, this includes sensors and/or additional controls.
- Costs for shipping.
- Costs for installation.

Return Shipping Information: Once the RMA has been issued the warranty item should be returned to:

Inda-Gro

Attn: Warranty Repairs

6176 Federal Blvd.

San Diego, CA 92114

Please allow 1-3 weeks for repairs of returned equipment.

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