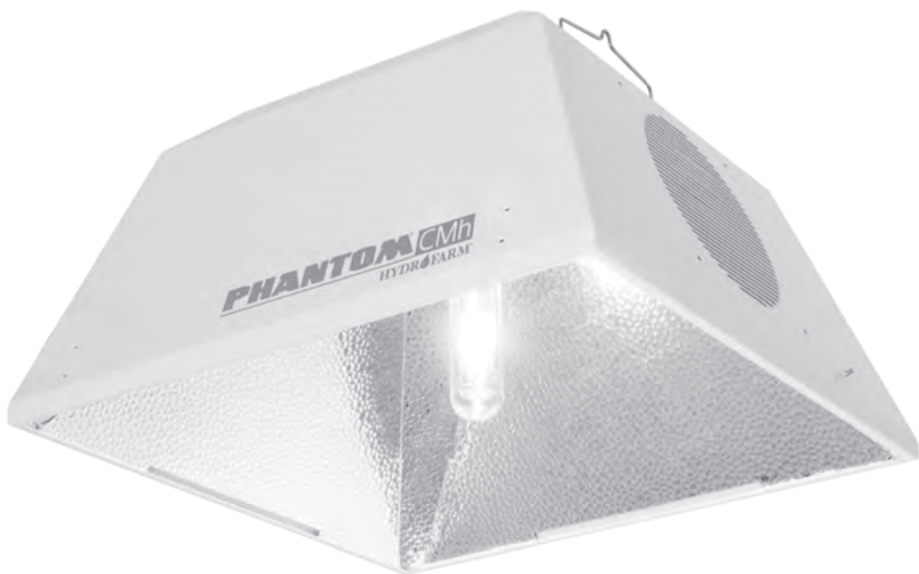

INSTRUCTIONS

PHANTOM CMh

CERAMIC METAL HALIDE REFLECTOR



PHR3150

INSTRUCTIONS

DESCRIPTION

Thank you for purchasing Hydrofarm's Phantom CMh 315 (**PHR3150**) ceramic metal halide reflector. When used with our matched Phantom CMh ballast and 315-watt ceramic metal halide lamp, this reflector is designed to provide superior PAR light delivery with a very uniform light spread.

⚠ WARNING: FAILURE TO FOLLOW OUR GUIDELINES COULD RESULT IN ELECTRICAL SHOCK. Do not touch, move, spray or clean your light fixture when it is plugged in. Allow it to cool down before handling. Recommended mounting clearance for your fixture is 8"-12" on all sides. Do not mount directly to any surface.

HANGING THE PHR3150 REFLECTOR

1. Upon opening the box, note any dented, deformed, or damaged parts. If any part of your unit is broken or damaged, immediately notify your retailer.
2. Remove plastic bag from reflector and inspect the reflector for any damage.
3. Locate the ceiling joist with a stud finder. If you cannot locate the joist, insert expansion anchors into the ceiling. The anchors (and the hooks used with them) should be rated to hold at least 50 lbs each.
4. Screw an eyebolt, J-hook, or some other means of hanging the reflector securely from the ceiling into the joist or anchor. Screw a second eyehook further down the joist or in an anchor to balance hanging the reflector.
5. Attach a chain, rope, or other sturdy material to the eyehooks (we recommend Hydrofarm's Light Riser, item code LULIFT).
6. Secure the chain, rope, carabiner clips, etc. to the CMh 315's integrated hangers.
7. Use the cable tie provided to secure the electrical cord to the hanging cord/chain so that the cord's weight doesn't tilt the fixture.
8. Adjust the reflector's height to the desired distance above the plant canopy.

LAMP INSTALLATION

Wearing gloves if possible, remove your lamp from its packaging (lamp must be Philips 315W 38 mm T12 ceramic metal halide for PGZX18 socket). Install the lamp into the socket by inserting the pins on the lamp base into the matching shaped holes in the socket and turning the lamp a quarter turn to the right (clockwise)(see photo below). When the lamp is properly installed, the base will stop turning and the lamp will feel firmly seated. The lamp is operated in vertical position in this reflector.



NOTE: If air cooling of this reflector is desired, order the optional Air Cooling Kit (**PHR3150CKT**) which provides two 6" flanges and a sealing lens system.

INSTRUCTIONS

CLEANING THE REFLECTOR AND LAMP

- Unplug the reflector and allow it to cool.
- Wearing gloves, carefully remove the lamp and set it aside.
- Mix warm, mild soap and water and apply sparingly to the reflector's aluminum interior with a clean washcloth. Dry with a second washcloth. Flip reflector over to cleanse both sides.
- Run a dry, soft washcloth over the lamp to remove dust particles, taking care not to leave any skin oils/fingerprints on it (try to wear gloves whenever handling the lamp).
- Install the lamp back into the socket in the reflector.

TIPS

- The lamp may require 10–30 minutes cooling time before restarting.
- After you plug in and power on the ballast, the lamp may require several minutes to reach its full brightness.
- Be aware that in the event of a momentary power interruption, the lamp will not restart immediately.
- Some variation in the color of light emitted by the lamp is not unusual, especially in the first 100 hours of operation.
- Never pull the cord to unplug the reflector; pull the plug only.
- Avoid scratching the lamp, subjecting it to undue pressure, or getting it wet when it is hot—these actions may cause the lamp to break.
- In the event of lamp breakage, immediately unplug the reflector to prevent exposure to ultraviolet energy, which may be harmful to eyes and skin.
- Keep room temperature below 95°F, with adequate air circulation provided by oscillation fans in the growing area.
- Please take care to consider proximity to plants when installing your fixture. Closer proximities will give greater intensity, but they will also reduce the effective coverage footprint.
- Always use a heavy-duty three-pronged grounded timer, rated for at least 15 amps.

SPECIFICATIONS

SPECIFICATIONS	
DIMENSIONS	18"L x 18"W x 11"H
WEIGHT	8 lbs
INTERIOR	95% reflectivity hammertone aluminum
SOCKET	PGZX18 (built-in)
LAMP COMPATIBILITY	315W ceramic metal halide T12 (38 mm) PGZX18 base only
LENS	Available with optional cooling kit (item code PHR3150CKT)
FLANGES	Available with optional cooling kit (item code PHR3150CKT)



SPECIFICATIONS	
DIMENSIONES	45 cm (L) x 45 cm (An) x 28 cm (Al)
PESO	3,6 kg
INTERIOR	Aluminio de efecto martelé con reflectividad del 95%
PORTALÁMPARAS	PGZX18 (incorporado)
LÁMPARAS COMPATIBLES	Halogenuro metálico y tecnología cerámica de 315W T12 (38 mm) únicamente para portalámparas PGZX18
LENTE	Disponibles con el kit de aire acondicionado opcional (código del producto: PHR315CKT)
BRIDAS	Disponibles con el kit de aire acondicionado opcional (código del producto: PHR315CKT)

WARRANTY



LIMITED WARRANTY

Hydrofarm warrants the **PHR3150** reflector to be free from defects in materials and workmanship. The warranty term is 5 years beginning on the date of purchase. Misuse, abuse, or failure to follow instructions is not covered under this warranty. Hydrofarm will, at our discretion, repair or replace the reflector covered under this warranty if it is returned to the original place of purchase. Call your place of purchase to receive a return authorization form for a faulty part. Unauthorized returns will not be accepted. To request warranty service, please return the reflector, with original sales receipt and packaging, to your place of purchase. The purchase date is based on your original sales receipt.

GARANTÍA LIMITADA



Hydrofarm garantiza que el **PHR3150** no presenta defectos en los materiales ni la fabricación. La vigencia de la garantía es cinco años que comienza en la fecha de compra. Esta garantía no cubre el uso erróneo, el abuso o el incumplimiento de las instrucciones. Hydrofarm, según su criterio, reparará o sustituirá el **PHR3150** incluido en esta garantía si se devuelve al centro original de compra. Para solicitar el servicio de garantía, devuelva el **PHR3150**, con el tique de compra y el embalaje originales, a su centro de compra. La fecha de compra se basa en su tique de compra original.

GARANTIE LIMITÉE



Hydrofarm garantit que le **PHR3150** ne présente pas de défauts de matériel ni de fabrication. La garantie est en vigueur pendant cinq ans à compter de la date d'achat. Cette garantie ne couvre pas l'utilisation incorrecte, l'abus ou le non respect de la notice. Hydrofarm, selon ses critères, réparera ou remplacera le **PHR3150** couvert par cette garantie s'il est renvoyé au centre original d'achat. Pour demander le service de garantie, renvoyer le **PHR3150**, avec le ticket d'achat et l'emballage originaux, au centre d'achat. La date d'achat est indiquée sur le ticket d'achat original.

BEGRENZTE GARANTIE



Hydrofarm gewährleistet, dass der **PHR3150** ohne Material- und Herstellungsmängel geliefert wird. Die Garantiedauer beträgt fünf Jahre und beginnt zum Kaufdatum zu laufen. Schäden, die aufgrund eines unsachgemäßen Gebrauchs oder der Nichteinhaltung der Anleitungen entstehen, sind von der Garantie nicht gedeckt. Hydrofarm wird den unter Garantie stehenden **PHR3150** nach eigenem Ermessen entweder reparieren oder ersetzen, sofern die Rückgabe an der Verkaufsstelle, an der er erworben wurde, erfolgt. Um Garantieleistungen zu beantragen, senden Sie den **PHR3150**, mit Original-Kaufbeleg und Verpackung, um Ihre Verkaufsstelle. Das Kaufdatum ist auf dem Original-Kaufbeleg basiert.

INSTRUCTIONS

PHANTOM CMh

315W CERAMIC METAL HALIDE E-BALLAST



PHBC3150

INSTRUCTIONS

Thank you for your purchase of the Phantom CMh ballast (PHBC3150). Supply power for the ballast is based on typical commercial or residential input. This ballast should be used only with the matching 315W ceramic metal halide lamp to achieve the highest efficiency, safety, luminosity, and proper operation.

ALWAYS DISCONNECT THE BALLAST'S POWER CORD BEFORE MOVING UNIT OR CHANGING LAMPS

WARNINGS

- Use this Phantom CMh ballast indoors only. Position it in an area away from excessive heat or contact with liquids.
- This ballast does not rely on the luminance enclosure for protection against accidental contact with live parts.
- Use the Phantom CMh ballast with a maximum lamp cord length of 50 feet.
- Disconnect the ballast from the power supply before performing any maintenance, lamp changes, or other modifications.
- Opening the ballast will void the warranty.
- Do not use lamps of any type other than the 315W (T12 38 mm PGZX18 base) with this ballast. Not for use with external ignitors.
- Do not use the Phantom CMh ballast with Hydrofarm's TM01240 240V timer. The TM01240 timer is not designed for use with electronic ballasts and using it may cause the ballast to fail.
- The Phantom CMh ballast is designed to be used with Hydrofarm power cords ONLY. Using it with other power cords, or modifying the power or lamp cords, will void the warranty.

DEFINITION OF TERMS

- **Main Voltage** – Rated input voltage for the ballast
- **Watts** – Input power
- **Amps** – Input current or draw
- **Power Factor** – A measurement of how effectively the ballast converts electrical current to useful power output, in this case, output to the lamp. Power factor is measured between 0-1; the closer you get to 1, the more effective the circuit is said to be. The Phantom's power factor is greater than .98.
- **Working Voltage** – The acceptable operating range for input voltage to the ballast. Deviations from the rated numbers may result in decreased ballast performance and additional case generated heat.
- **Ignitor Voltage** – Ballast output during ignition sequence
- **THD (Total Harmonic Distortion)** – A measurement of all harmonics present in a circuit. The higher the number, the more stress is applied to internal parts, the lamp, and the power grid. Generally, a number below 10% is considered desirable in an electronic ballast application.

INSTRUCTIONS

- **CF (Crest Factor)** – A measurement of how “clean” the ballast power output wave is. A perfectly clean output sine wave would have a CF of 1.414. Given that some harmonics must exist in an electrical system, the crest factor must always be higher than 1.414. Therefore, the closer the ballast is to a CF of 1.414, the easier it is on the lamp.
- **ta (Ambient Temperature)** – Maximum rated ambient temperature for the ballast area. Excessive ambient temperature can result in ballast failure, safety shutdown, or lamp failure.
- **tc (Case Temperature)** – Maximum temperature that the case of the ballast should reach. If the case temperature exceeds this number, the ballast may be malfunctioning or the ambient temperature may exceed the rating.

INSTALLING AND CONNECTING THE BALLAST

1. Find a suitable location for the ballast with sufficient cooling and away from any heat source.
2. Install the lamp firmly into the lamp socket and connect the lamp cord to the ballast.
3. Plug the power cord into the power input panel on the side of the ballast.
4. Plug the power cord into the power source (electrical outlet - 120/240V only).

NOTE: For proper break-in on new lamps, we recommend that you run the ballast and lamp for at least 12 straight hours after initial startup. This will improve lamp life and performance.

MOUNTING THE BALLAST ON THE WALL

1. Find a suitable location for the ballast. You will need a space at least 9½” wide. You will need to install two wall screws approximately 9” apart. If studs or another wooden mounting surface are not available, use drywall anchors sufficient to hold 15 lbs. Ensure that the screw heads are large enough not to slip out of the screw slots in the ballast frame.
2. Hold the ballast up to the spot where you want to wall-mount it, and make sure it is level. With a pen or pencil, make dot marks on the wall where you will be putting the screws. (We recommend drilling pilot holes if your mounting surface is hard wood, like a stud.)
3. After preparing your holes, hold the ballast in place and install the two screws. Carefully tighten the screws until the ballast is secure. Do not overtighten.

SPECIFICATIONS	
Input power	340W
Output power (Max)	315W
Output voltage	120V/208V/240V
Safe voltage	90V~260V
Amps	2.3A/120V, 1.63A/208V, 1.41A/240V
Input frequency	50/60Hz
Power Factor	>0.99

WARRANTY



LIMITED WARRANTY

Hydrofarm warrants the **PHBC3150** to be free from defects in materials and workmanship. The warranty term is for 3 years beginning on the date of purchase. Misuse, abuse, or failure to follow instructions is not covered under this warranty. Hydrofarm will, at our discretion, repair or replace the **PHBC3150** covered under this warranty if it is returned to the original place of purchase. To request warranty service, please return the **PHBC3150**, with original sales receipt and original packaging, to your place of purchase. The purchase date is based on your original sales receipt.

GARANTÍA LIMITADA

Hydrofarm garantiza que **PHBC3150** no presenta defectos en los materiales ni la fabricación. La vigencia de la garantía es 3 años comienza en la fecha de compra. Esta garantía no cubre el uso erróneo, el abuso o el incumplimiento de las instrucciones. Hydrofarm, según su criterio, reparará o sustituirá **PHBC3150** incluido en esta garantía si se devuelve al centro original de compra. Para solicitar el servicio de garantía, devuelva **PHBC3150**, con el tique de compra y el embalaje originales, a su centro de compra. La fecha de compra se basa en su tique de compra original.

GARANTIE LIMITÉE

Hydrofarm garantit que **PHBC3150** ne présente pas de défauts de matériel ni de fabrication. La garantie est en vigueur 3 ans à partir de la date d'achat. Cette garantie ne couvre pas l'utilisation incorrecte, l'abus ou le non respect de la notice. Hydrofarm, selon ses critères, réparera ou remplacera **PHBC3150** couvert par cette garantie s'il est renvoyé au centre original d'achat. Pour demander le service de garantie, renvoyer **PHBC3150**, avec le ticket d'achat et l'emballage originaux, au centre d'achat. La date d'achat est indiquée sur le ticket d'achat original.

BEGRENZTE GARANTIE

Hydrofarm gewährleistet, dass der **PHBC3150** ohne Material- und Herstellungsmängel geliefert wird. Die Garantiedauer beträgt 3 Jahre und beginnt zum Kaufdatum zu laufen. Schäden, die aufgrund eines unsachgemäßen Gebrauchs oder der Nichteinhaltung der Anleitungen entstehen, sind von der Garantie nicht gedeckt. Hydrofarm wird den unter Garantie stehenden **PHBC3150** nach eigenem Ermessen entweder reparieren oder ersetzen, sofern die Rückgabe an der Verkaufsstelle, an der er erworben wurde, erfolgt. Für die Beantragung der Garantieleistungen ist der **PHBC3150** mit der Quittung und in der Originalverpackung an der Verkaufsstelle zurückzugeben. Als Kaufdatum gilt jenes Datum, das dem Kaufticket im Original zu entnehmen ist.