



MANTIS HORTICULTURE



315 CERAMIC METAL HALIDE SYSTEM

INSTRUCTION MANUAL

IMPORTANT INFORMATION

READ BEFORE INSTALLATION

NOTE: FAILURE TO OBSERVE THE SAFETY WARNINGS OUTLINED IN THIS MANUAL MAY RESULT IN SERIOUS INJURY. IN ADDITION FAILURE TO OBSERVE THESE SAFETY WARNINGS RESULTS IN A WAIVER OF ALL LIABILITIES ON MANTIS HORTICULTURE AND VOIDS ALL WARRANTIES.

WARNINGS:

- ALWAYS DISCONNECT POWER BEFORE CHANGING LAMPS.
- WHEN CHANGING LAMP, ALWAYS ALLOW TIME FOR LAMP TO COOL COMPLETELY. DOUBLE JACKETED 315 CMH BULBS MAY TAKE 30-45 MINUTES TO COOL COMPLETELY.
- ALWAYS ENSURE ALL CORDS ARE PROPERLY CONNECTED.
- NEVER HANG FIXTURE BY POWER CORD OR LAMP CORD.
- NEVER TOUCH OR CONTACT THE SOCKET WHILE THE POWER IS ON.
- NEVER OPERATE THE FIXTURE IN WET LOCATIONS.
- NEVER PLUG THE FIXTURE INTO A SUPPLY VOLTAGE OTHER THAN 120-240V.
- NEVER OPEN, REWIRE, OR MODIFY ANY COMPONENTS OF THE LIGHTING FIXTURE. DOING SO VOIDS ALL WARRANTIES AND COULD RESULT IN SERIOUS INJURY OR DEATH.
- THIS LIGHTING FIXTURE OPERATES AT HIGH TEMPERATURES. KEEP AWAY FROM CHILDREN.
- NEVER UNPLUG THE POWER CORD AT THE BALLAST END WHILE THE BALLAST IS ON. ALWAYS UNPLUG AT THE WALL SOCKET END OF THE POWER CORD.
- READ ALL WARNINGS AND INSTRUCTIONS THAT COME WITH YOUR BULB.

BULB INSTALLATION:

- NOTE: A BULB IS NOT INCLUDED IN THE BOX, BUT IS REQUIRED TO USE THE FIXTURE. PURCHASE AT YOUR LOCAL HYDROPONIC RETAIL STORE TO ENSURE A RELIABLE WARRANTY.
- ALWAYS USE DOUBLE JACKETED 315 WATT CMH BULBS IN OPEN FIXTURES. AVOID SINGLE WALLED CMH BULBS IN ALL OPEN FIXTURES.
- NEVER INSERT BULB WITH POWER CORD ATTACHED TO BALLAST.
- 315 CMH BULBS HAVE TWO DIFFERENT PINS AT THE BASE OF THE BULB. MAKE SURE TO LINE UP THE CORRECT PINS WITH THE SOCKET HOLES THAT FIT.
- WHILE WEARING CLEAN GLOVES, CAREFULLY PRESS DOWN AT THE BASE OF THE BULB AND TURN 30-45 DEGREES CLOCKWISE UNTIL THE LAMP LOCKS IN. AVOID TWISTING THE GLASS PORTION OF THE BULB.
- ALWAYS UNPLUG YOUR BALLAST AND ALLOW CERAMIC METAL HALIDE BULBS TO COOL COMPLETELY BEFORE CHANING OUT YOUR BULB.

PROPER BULB CARE AND LIFESPAN:

Double walled 315 watt CMH bulbs may take 30-45 minutes to cool completely. For high performance horticulture applications, bulbs should be changed out before 8,500 hours to maintain high PAR output. At 12 hours per day of use, this is approximately two years of operating time (8,760 hours). At 18 hours per day of use this is approximately 1.3 years of operating time. To maintain the best possible PAR output change once per year. Running a lamp beyond it's expected maximum lifespan of 20,000 hours is not recommended and can cause lamp failure and very significant degradation of color spectrum.

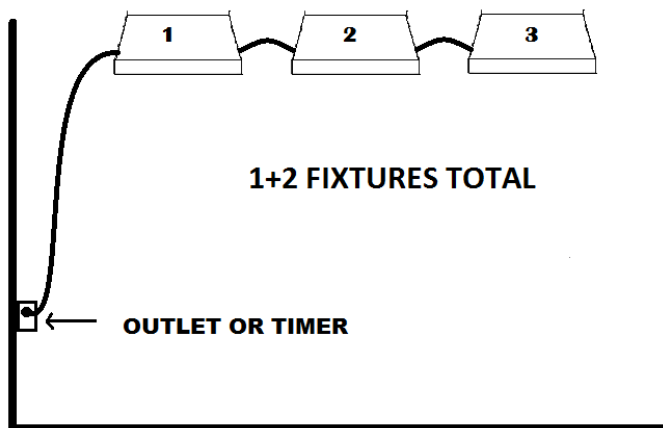
NOTE: UNTIL 315 CERAMIC METAL HALIDE BULBS HAVE ACHIEVED AT LEAST 10 HOURS OF OPERATION, THE BULB SHOULD NEVER BE TURNED OFF SOONER THAN 2 MINUTES. THIS INCLUDES INSTALLATION TESTS. IN CASES WHERE THIS DOES HAPPEN, YOU MUST WAIT 1 HOUR BEFORE ATTEMPTING TO SWITCH BULB BACK ON.

315 CMH SYSTEM – SETUP:

1. REMOVE FIXTURE AND ALL OTHER CONTENTS FROM BOX.
2. HANG FIXTURE A MINIMUM OF 18-24" FROM THE TOP OF PLANT CANOPY USING THE HANGERS PROVIDED.
NOTE: POSITION FIXTURE 1-2 FEET FURTHER AWAY FOR SMALL AND YOUNG PLANTS. MANY 315 WATT CMH BULBS CONTAIN HIGH AMOUNTS OF UVB AND UVC AND ARE NOT RECOMMENDED FOR SEEDLINGS AND CLONES.
3. ENSURE BULB IS PROPERLY INSTALLED AND ALL CORDS ARE FULLY CONNECTED AND PLUGGED IN FIRMLY TO THE FIXTURE.
4. PLUG THE FIXTURES POWER CORD INTO PROPER NEMA CONFIGURED RECEPTACLE (WALL OUTLET).

DAISY CHAIN:

- DAISY CHAIN FEATURE MAY BE USED BETWEEN 120-240V.
- NEVER PLUG **ANY** OTHER ELECTRICAL DEVICE INTO DAISY CHAIN.
- A MAXIMUM OF THREE UNITS PER DAISY CHAIN (1+2).



TROUBLESHOOTING:

WHAT TO DO IF YOUR FIXTURE DOESN'T WORK

1. CHECK ELECTRICAL SOURCE(S). MAKE SURE UNIT IS PLUGGED IN PROPERLY AND THAT ASSOCIATED BREAKER IS NOT TRIPPED OR FUSE BLOWN.
2. WITH POWER CORD UNPLUGGED, CHECK TO MAKE SURE THE BULB WAS INSTALLED PROPERLY.
3. CONSIDER HAVING AN ELECTRICIAN CHECK THE VOLTAGE AT YOUR OUTLET(S).

WARRANTY SERVICE:

Please read warranty information before returning product.

If after troubleshooting the fixture still does not work, you should return the fixture and bulb to the retail store where you purchased it. They will be able to diagnose the fixture and test its various components and in many cases be able to determine which part is broken and needs to be fixed or replaced. Bulb warranties can usually be handled in store and most horticulture bulbs have a warranty from the date of purchase for 1 year to cover manufacturer defect. Fixtures that have defective ballasts within 2 years from the date of purchase will be repaired or replaced.

To locate the nearest retail store that carries Mantis Horticulture fixtures, visit our website at www.mantishorticulture.com. If there are no dealers in your area you may contact us directly for technical and warranty support by emailing us at "support@mantishorticulture.com." All warranty claims will require a proof of purchase receipt to establish the date the warranty starts and ends. If a unit cannot be repaired and is under warranty with proof of purchase, a replacement unit will be provided. If there are no replacement fixtures available, a comparable fixture will be substituted.

NOTE: ALL WARRANTY CLAIMS REQUIRE PROOF OF PURCHASE

Mantis Horticulture warrants to the original purchaser of this product against defects in material and workmanship under normal use for 2 years on all Mantis Horticulture fixtures. During the warranty period, Mantis Horticulture will repair or replace this product, if the unit or any of its components fail or malfunction as a result of manufacturer defect.

This warranty is expressly in lieu of all other warranties, expressed or implied, including the warranties of merchantability and fitness for use and of all other obligations or liabilities on the part of the seller. This warranty shall not apply to this product or any part thereof which has been damaged by accident, abuse, misuse, modification, negligence, alteration, or misapplication. Mantis Horticulture makes no warranty whatsoever in respect to accessories or parts not supplied by Mantis Horticulture, including bulbs. This warranty shall apply only to the United States, including Alaska, Hawaii and territories of the United States.



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