

# LUCIUS RECOM

## HPS DE BALLAST INSTRUCTION MANUAL

## INTRODUCTION

### THANK YOU FOR PURCHASING YOUR LUCIUS RECOM HPS DOUBLE ENDED BALLAST.

Lucius ReCom HPS DE 600, 800 & 1000W Ballasts are designed to efficiently and effectively provide optimum levels of horticultural light.

Lucius ReCom HPS DE Ballast operates a large selection of High Intensity Discharge (HID) Lamps, Double Ended High Voltage (DE, HV/400V), High Pressure Sodium (HPS) and Metal-Halide (MH) lamps.

All Lucius ReCom Ballasts can be controlled manually via the control knob or by the Lucius Light Management Controller (LMC). Dimming function for up to 200 Lucius Ballast, ON or OFF ballast timing on multiple zones is all controlled remotely with one LMC. The Lucius Light Management Controller is sold separately and includes many features described in the Lucius Light Management Controller instruction manual.

The Lucius ReCom HPS DE Ballast is equipped with safety features that protect against overloading, short circuit, over temperature, over and under voltage protection and more. With a peak efficiency of 97% the Lucius ReCom HPS DE Ballast is the most efficient and powerful HV Ballast on the market. It complies with international standard IEC and meets EMI/EMS requirements.

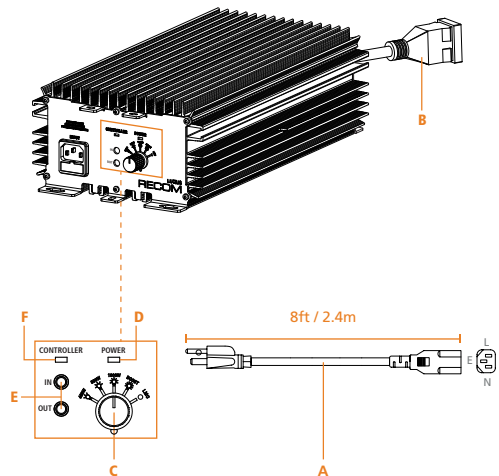
The Lucius ReCom Ballast is tested and approved by internal and external QC departments.

Lucius ReCom Ballasts are the ideal option for Remote or Combo application and compatible with all other reflectors and ballast.

Please read and hang on to this instruction manual, to help in reducing the risk of damage to the fixture, to yourself or others. Use the fixture only as outlined in this manual.

## 1. CONTENTS

- 1. Lucius ReCom HPS DE Ballast  
600W □ 800W □ 1000W □
- A Ballast input cable plug
- B Ballast output cable plug
- C Control knob
- D Power ON LED
- E Input / output AUX ports for Light Management Controller (LMC)
- F Light Management Controller LED

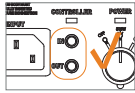




# 4. ELECTRICAL CONNECTIONS

→ Before operation, ensure all electrical connections are secure.

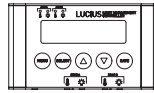
- 1 Switch off main power.
- 2 Ensure the lamp is properly installed. Never use the fixture without a lamp or reflector.
- 3 Ensure the reflector cable plug in firmly connected to the ballast output plug.
- 4 Lucius Light Management Controller connections (if applicable):
  - Connect the Lucius Light Management Controller to the Input AUX port of the ballast via the controller Jumper Cable (Signal Wire).
  - Using the Jumper Cable, connect the output AUX port of the first ballast to the input AUX port of the second ballast and repeat this process to connect up to 100 ballasts per controller port x 2 zones (Total 200 ballasts).
- 5 Ensure the power cord and the controller cable does not touch the reflector.
- 6 Connect the ballast input cable to the power outlet. Ensure power is off.
- 7 If external switch gear is used to supply power to fixture, ensure it can cope with the inrush current of the fixture (see ballast specifications). Never use household timers to switch the fixture.
- 8 Always use an electrical contractor to ensure wiring can support the voltage and current requirements of the fixture.



Ballast input view



No splitter needed



(See Lucius Light Management Controller Instruction Manual for more details.)

# 5. START UP

The Lucius ReCom HPS DE Ballasts can be operated by either external timer box or Lucius Light Management Controller. After installing the light kit (ballast, bracket, reflector, and lamp) and ensuring the electrical connections are secure, follow below steps.

## → 5.1 Using the external timer box

**5.1.1** Set the control knob to the rated power.

**Note:** Before dimming or boosting the lamps, ensure the lamp is operated at the nominal power (100%) for at least 100 hours to stabilize the lamp. Failing to do so may lead to sub-optimal light levels and premature end of life failure of lamp.



600W DE



800W DE



1000W DE

**5.1.2** Consider all safety factors located in section 3 of this manual and lamp safety factors located on the lamp sleeve.

**5.1.3** Switch on the main power.

**Note:** All Lucius ReCom ballasts are equipped with ignition time delay to reduce the total inrush current. As a result, there is a small delay before the lamp ignites.

**5.1.4** You can adjust the control knob to achieve the desired light level.

## → 5.2 Using the Lucius Light Management Controller (LMC)

**5.2.1** Switch off the main power of the ballast. Turn the control knob to the "LMC" option.



600W DE

**5.2.2** Connect the LMC power adaptor to the separate power supply and turn the LMC on. Adjust all LMC settings (ballast selection, dimming, timing, temperature settings, etc.) follow instructions on the LMC instruction manual and set the power to the nominal values or 100%.



800W DE

**5.2.3** Follow section 4.4 on this instruction manual to ensure about signal wire connections.

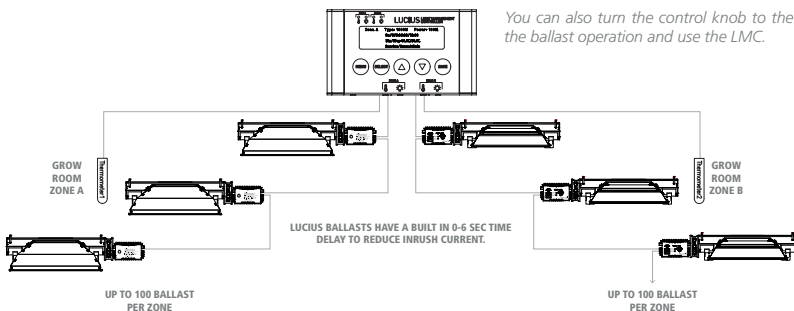


1000W DE

**5.2.4** Switch on the main power. The controller LED on the ballast will turn on when the connection is successful and the ballast is fully controlled by the LMC.

**Note:** You will need to connect the ballast input plug to the power supply or a distribution box.

You can also turn the control knob to the "LMC" during the ballast operation and use the LMC.



## 6. GENERAL MAINTENANCE

Disconnect the product from all power before performing any maintenance. Regularly check the fixture for dust or dirt build-up. Dust, dirt, and fingerprint on the lamp, reflector and ballast may cause overheating and decreased performance.

- Clean the lamp regularly with a soft, dry and clean cloth.
- Clean the ballast and outside of the fixture using a dry or damp cloth.
- The lamp should be replaced every 5000 lighting hours or after 1 year's operation.
- Lucius recommends replacement of reflector after 5000 lighting hours to maintain maximum reflectivity. Depending on environment and lamp type the reflector will degrade. The Miro® aluminium cannot be cleaned without damage, therefore it is recommended that reflectors are changed once every year.
- Do not clean the fixture with detergents, abrasives, or other aggressive substances. Do not touch the inside of the reflector during installation and do not use water to clean it. This will damage the reflective coating on the surface.
- Allow sufficient time before connecting the light kit to the power supply after maintenance work has been conducted.
- Regularly check the wiring of the product to ensure it is undamaged.

**Note:** Before initial use, the lamp may have a black mark on the arc tube. Do not be concerned! This shows the light kit has been tested prior to packaging. This will disappear when the lamp runs at full power.

## 7. STORAGE AND DISPOSAL

- Store the fixture in a dry and clean environment, with an ambient temperature of -40 to 70°C / -40 to 158°F.
- The product must not be discarded as unsorted municipal waste, but must be collected separately for the purpose of treatment, recovery, and environmentally sound disposal.
- The lamps are chemical hazardous waste (mercury) and must be delivered to the designated authorities.

## 8. WARRANTY

**Refer to warranty on packaging. Lucius is not liable and the warranty will be void under the following circumstances:**

- Incorrect use of the product.
- Not adhering to the warnings established in this instruction manual.
- Improper storage and handling.
- Unauthorised modification of the product.
- Use of unauthorised accessories or parts with the product.
- Purchases from unauthorised retailers or dealers.

*Contact the retailer where the product was originally purchased for warranty claims and further information.*