

Work Instruction

Agrolux ALTR



Instructions for mounting, installing, and using the Agrolux ALTR

North America

1. Introduction

Thank you for purchasing the Agrolux ALTR. This manual describes the mounting and installing of the product and also describes how to use the product. Mounting and installing of the luminaire may only be executed by certified service personnel. Please read and understand this manual completely before using the luminaire. Only use the luminaire as specified in this manual.

1.1 Warnings



Warning! A warning indicates severe damage to the user and/or product may occur when a procedure is not carried out as described.



Caution! A caution sign indicates problems may occur if a procedure is not carried out as described. It may also serve as a reminder to the user.



Note: A note gives additional information, e.g. for a procedure.



This symbol indicates that the luminaire can reach high temperatures (>85 °C/185 F). Observe a cool down period before performing maintenance.



This symbol is a certification mark employed on electronic products manufactured or sold in the United States which certifies that the electromagnetic interference from the device is under limits approved by the Federal Communications Commission.



This symbol shows that a product has been independently tested and certified to meet recognized standards for safety.



The symbol on the material, accessories or packaging indicates that this product may not be discarded as household waste. By disposing of the equipment in the proper way, you will be helping to prevent possible risks to the environment and public health, which might otherwise be caused by improper handling of the discarded equipment. Recycling of materials contributes to the conservation of natural resources. Therefore, please do not dispose of your old electronics and electrical appliances via household waste.



This symbol indicates the minimum distance (B) between the luminaire (A) and the lit surface.



This symbol indicates a risk of electric shock. Do not remove the lens. There are no servicable parts inside the luminaire.

2. Product description

The Agrolux ALTR are solid state horticultural LED luminaires. They are equipped with two high intensity LED panels. The Agrolux ALTR are intended to be used indoors in greenhouses or in climate rooms. In this manual, the Agrolux ALTR will be referred to as: “the luminaire”.

3. Product information

3.1 General product information NA models

To view the current product information, click the button.

3.2 Technical specifications

To view the current technical specifications, click the button.

3.3 Compatible products and accessories

Compatible power cords

Product name	Part number
Agrolux RST Mains cable DCA 0.8m	CB9326432
Agrolux RST Mains cable DCA 0.9m	CB9326434

3.4 Environment

The product is intended to be used in greenhouses and climate rooms. The product can be used in damp environments. The product may not be used in wet environments or outdoors. The lamps function optimal when the ambient temperature is between 20 ~ 30 °C (68 ~ 86 F). For optimum operation a minimum clearance of at least 35 cm/14 inches must be maintained in all directions.



Warning! Ambient temperatures may not exceed 45 °C (113 F). Exposure to temperatures above 45 °C (113 F) will shorten the lifetime and increase the chance of failures.

3.5 Legal

Approval according to:

EN IEC 60598-1:2021/A11:2022; EN IEC 60598-2-1:2021; EN IEC 55015 :2019; EN 61547:2009;
EN IEC 61000-3-2:2019; EN 61000-3-3:2013+A1:2019; EN 50561-1:2013; EN 50412-2-1:2005

CSA C22.2 No. 250.0:21 Ed.5th; UL 1598:2021 Ed.5th; UL 8800:2023A Ed.1st; FCC Part 15B:2021;
ICES-005 issue 5; ICES-006 Issue 3.

4. Safety recommendations and warnings

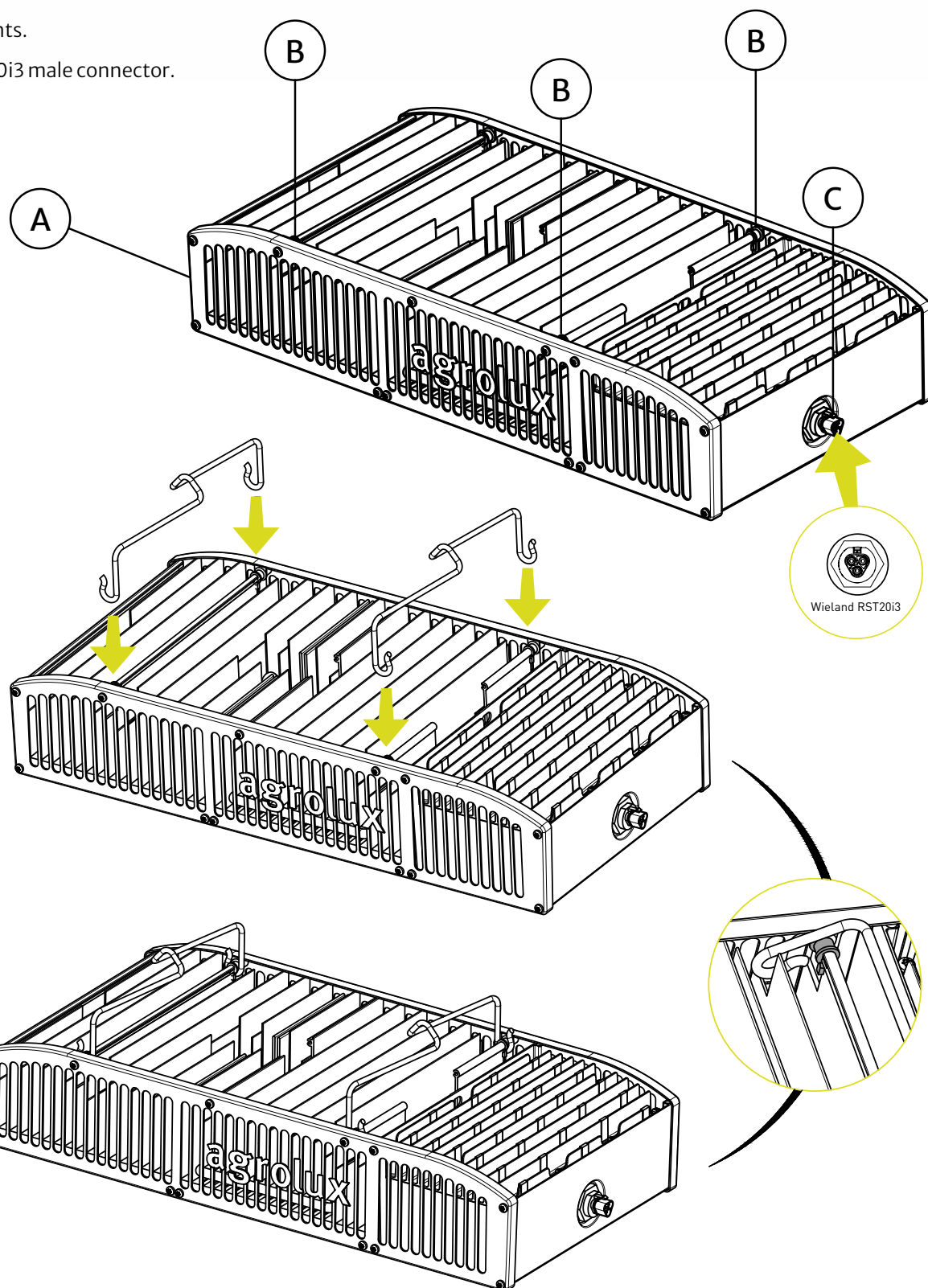


Warning! Carefully read the warnings below before using or working with the product!

- Always adhere to the local rules and regulations when installing or using the luminaire.
- Do not open or disassemble the luminaire, it contains no servicable parts inside. Opening the luminaire can be dangerous and will void the warranty.
- The light source contained in this luminaire shall only be replaced by the manufacturer or his service agent or a similar qualified person.
- This product may cause interference to radio equipment and should not be installed near maritime safety communications equipment or other critical navigation or communication equipment operating between 0.45 – 30 MHz.
- Do not use the luminaire when either its optics, heatsink or power cord are damaged. Replace the power cord only with original certified cords.
- Modifications to the cords can lead to unwanted electromagnetic effects, which makes the product not comply with legal requirements.
- Do not expose the luminaire to:
 - condensing humidity, heavy mist, fog or direct spray;
 - (ambient) temperatures outside the specified range;
 - dust and contamination;
 - direct sunlight during use or HID light that could heat up the luminaire.
- Always disconnect the luminaire from mains before performing any maintenance.
- Always allow for a cool down period of at least 30 minutes before touching the LED-panel and the luminaire.
- Touching the LED-panel or the luminaire when the lamp is lit or immediately afterwards will result in severe burns!
- Do not use the luminaire near or above flammable, explosive or reactive substances. The LED-panel and the luminaire reach temperatures up to 85 °Celsius.
- Do not use sulfur vaporizers or water misters. Sulfur and calcium deposits on the optics will decrease its efficiency.
- The installation and use of the luminaire is the responsibility of the end user. Incorrect use or installation can lead to failure and damage to the luminaire. Damage to the luminaire and electronic circuitry as a result of incorrect installation and use revokes the warranty.

5. Contents

- A. Agrolux ALTR.
- B. Mounting points.
- C. Wieland RST20i3 male connector.



6. Installation



Warnings!

- Mounting and installing of the luminaire may only be executed by certified service personnel, in accordance with the applicable local laws and regulations.
- The fitter is responsible for correct and safe installation.
- Ensure the local cabling can support the voltage and current requirements of the luminaire.
- Avoid coiled cords and keep mains leads separated. This prevents electromagnetic interference.
- Do not connect or disconnect the Wieland RST20i3 plug under load.

6.1 Installation preparations

- Switch off mains power.
- Read the Agrolux light distribution plan.

6.2 Installing the luminaire

- Mount the two luminaire holder brackets as shown in the figure on the previous page.
- Mount the (custom made) suspension bracket according to the light distribution plan.
- Hang the luminaire by its two holder brackets onto the suspension bracket. Keep a minimum free space of 35 cm/14 inches around the luminaire for proper airflow for cooling.



Caution! Ensure the luminaire hangs horizontally for best performance.

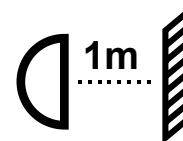
To install more luminaires repeat the steps in sections 6.1 and 6.2.

6.3 Connecting the luminaire to the mains



Warnings!

- Make sure mains power is switched off.
- Ensure the cord is not coiled and does not touch any hot surfaces.
- Connect the cables according to local rules, safety regulations and electrical code.
- Ensure external switching gear can cope with the inrush current of the luminaire. Always use a double pole contactor suitable for switching a capacitive load. Never use household timers to switch the luminaire!



- Connect the wires of the female Wieland RST20i3 cable with the distribution cable of the electrical installation.



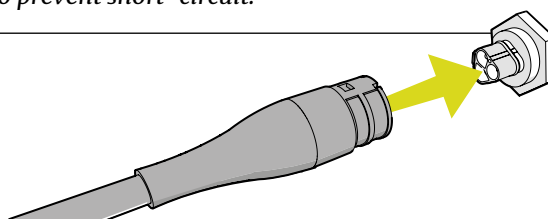
Caution! Use a suitable sealed joint to connect the cables.

Wire	347V	400V
Brown	Phase (L)	Phase (L)
Blue	Neutral (N)	Phase (L)
Green/yellow	Ground (⊕)	Ground (⊕)



Warning! Make sure the wires are connected correctly to prevent short-circuit.

- Plug the Wieland RST20i3 female connection onto the Wieland RST20i3 male connection of the luminaire.
- Switch on mains power.



Warning! Do not connect or disconnect the Wieland RST20i3 plug under load.

7. Precautions when using the luminaire



Warning! Always wait 20 – 30 minutes for the luminaire to cool down!



Caution! A maximum of two switch cycles (on/off) per day is allowed.

8. Inspection, maintenance and repair



Warnings!

- Disconnect the product from mains before performing any maintenance.
- Do not connect or disconnect the Wieland RST20i3 plug under load.
- Do not open or disassemble the luminaire, it contains no servicable parts inside. Opening the luminaire can be dangerous and will void the warranty.
- Always allow for a cool down period of at least 30 minutes before touching the lamp or luminaire.



Cautions!

- Do not clean the luminaire with detergents, abrasives or other aggressive substances.
- Do not touch the optics with your hands.

- Regularly check the luminaire for dust or dirt buildup. Clean if necessary. Contamination may cause overheating and decreased performance.
 - Clean the outside of the luminaire using a dry or damp cloth.
- Regularly check the wiring of the product to ensure it is undamaged.



Caution! The highly transparant optics are sensitive to contamination. Cleaning needs to be done with care. Check the table below for suitable and unsuitable cleaning agents

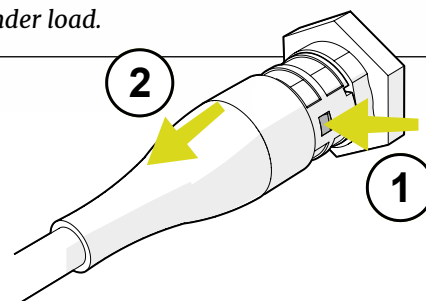
Use	Do not use
Alcohols: Isopropyl	Acetone
Hydrogen Peroxide 10 – 50%	Alcohols: Ethyl, Methyl
Ozone	Ammonia, liquid
Soap Solutions	Clorox (Bleach)
Water, distilled	Ethanol
Water, fresh	Methyl Alcohol 10%
Water, salt	Any other agent that can affect the optics

8.1 How to disconnect the Wieland RST20i3 plug



Warning! Do not connect or disconnect the Wieland RST20i3 plug under load.

- Switch off mains power.
- Press the pin on the Wieland RST20i3 male connection downwards and pull the Wieland RST20i3 female connection from the luminaire.



9. Storage and disposal

- Store the luminaire in a dry and clean environment, with an environmental temperature of 0 ~ 65 °C (32 – 149 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.

10. Warranty

Gavita International B.V. warrants the mechanical and electronic components of their product to be free of defects in material and workmanship if used under normal operating conditions for a period of five (5) years from the original date of purchase. If the product shows any defects within this period and that defect is not due to user error or improper use Agrolux Nederland B.V. shall, at its discretion, either replace or repair the product using suitable new or reconditioned products or parts. In case Agrolux Nederland B.V. decides to replace the entire product, this limited warranty shall apply to the replacement product for the remaining initial warranty period, i.e. five (5) years from the date of purchase of the original product.



Note! Greater than 15% of the diodes must be non-functional before the unite can be considered defective.

Questions?

If you have any questions after commissioning the instructions for mounting, installing, and using the Agrolux ALTR, please contact our Customer Care department at the address below.

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