

# GAVITA Pro 300 LEP AC Installation

With the GAVITA Pro LEP 300 Air Cooled you have acquired a state of the art solid state horticultural plasma light. To ensure you will benefit most from this exciting new technology please read this introduction carefully.

## Unpacking

**Do not rest the luminaire on the reflector**, but on its side or back. Do not operate the lamp on a combustible material.

## Installing the luminaire

The luminaire needs to hang free of any combustible material. The luminaire is balanced and has two hanging points. Make sure you use sufficiently strong materials.

## Installing the air cooling

**This luminaire requires active air cooling.** All heat generating electronics are mounted in the 150 mm tube. Mount the input of the ducting to the side which has the electronics and the Wieland connector. We recommend approximately 50-100 m<sup>3</sup>/h to cool the plasma electronics, depending on the input temperature of the air. The luminaire has a double temperature safety circuit which will switch off the power when the internal temperature reaches 70 degrees Celsius. In case of failure of the first temperature safety the electronics themselves have internal temperature safety circuits. When installing more luminaries in line increase air flow. To tune the air flow measure the output temperature of the air: for safe use it should not exceed 50 degrees Celsius.

## Attaching the power cord

You Pro LEP 300 AC is equipped with Wieland professional connector. Attach the power cord to the luminaire before plugging it in. The Wieland connector is secured with a latch. In order to unplug the connector unlatch in the connector first with a small screwdriver (insert and twist 90 degrees). After first use the latch will remain in the Wieland socket.

## Cleaning the glass filter

If the outer surface of the glass is dirty clean with a soft cloth. Do not use commercial glass cleaner. Use pure alcohol or a very small drop of soap. If necessary unscrew the two screws to remove the glass filter in order to clean the inside. Do not clean the reflector with any liquid detergent. Use a dry cloth only. Never touch or clean the glass plasma cell. **Never operate the light without the glass filter because of the high intensity UV radiation - this is dangerous for the eyes at close distance.**

## Distance from the crop

The reflector is designed to offer you a square light pattern. The effective surface depends on your application, but at a distance of 1 ft / 30 cm (glass filter to crop) the effective lighting area is about 3x3 ft / 90x90 cm.



# GAVITA Pro 300 LEP Air Cooled specifications

## Read this first

- No serviceable parts inside, opening of the luminary will void warranty. In case of failure return complete luminaire or emitter.
- Do not touch the puck or the plasma cell in the reflector. Clean with pure alcohol.
- The emitter above the reflector gets very warm, do not touch while operating.
- Wait 15 minutes before re-firing the lamp.
- Make sure that you have the appropriate mains voltage as specified for your model.
- Never operate the lamp upside down, always aim the light downward +/- 60 degrees.
- After unexpected shutdown (during launch or overheat) there is a 3 minutes start delay.

### Fixture & reflector

Input voltage	: 207 - 277 Volt (+/- 3%)
Input current	: 1.3 Ampere at 230 Volt
Real input power	: 300 Watt (+/- 3%)
Input frequency	: 50/60 Hz
Electrical insulation	: class 1
Input connection	: Wieland RST
Dimensions	: L 580 mm x B 245 mm x H 330 mm
Weight	: Ca 6,9 kg
Operating temp	: 0 – 35 C / 32 - 95 F
Relative humidity	: 25 – 70% (non-condensing)
Reflector material	: Miro™ aluminum high efficiency reflector, square field
Glass shield	: 4 mm Crystal Clear Low-Iron float glass with wide spectrum grow light transmission
Covered area	: 90x90 cm at 30 cm distance, 120x120 cm at 40 cm distance
Cooling	: 150mm ducting, air flow 50-100 m <sup>3</sup> /h

### Light source

Light source	: LIFI STA 41-02 module
Luminous flux	: 18,000 lumen (indicative)
PPF	: 300 µmol (calculated from spectrum analysis)
Color temperature	: 5600 K
CRI	: 94
Operating position	: Light source pointed downward +/- 60 degrees



### Spectrum

