



Installation and operation manual for Magnus Lights
ML and MW series

Air-cooled series: ML-150+ / ML-270/ ML-365
Liquid-cooled series: ML-270 WC/ ML-365 WC

INSTALLATION AND OPERATION MANUAL FOR MAGNUS LIGHTS ML AND MW SERIES

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Liquid-cooled series: ML-270 WC/ ML-365 WC

Congratulations on purchasing your Magnus Led! You have just bought the ultimate growled available on the market. Many years have been spent on perfecting the Magnus led series. The Magnus led is manufactured by Parus who have more than 13 years of experience in professional horticulture. Magnus light combined with Parus' vast R&D department and years of practical experience has resulted in the ultimate science-based led solution.

Experience first-hand the future of sustainable crop cultivation with faster growth and higher quality produce whilst maximizing your yield. You will enhance every aspect of your plants; superior taste, aroma and yield.

General warnings

1. Do not attempt to repair but call your supplier first. Failing to do so will void your warrantee.
2. Never look directly into the light without protective glasses
3. Be careful with water, this will damage the LED.

CHAPTER 1: INSTALLATION AND FIRST-TIME USE

- 1) Installing the light is easy. Just connect a wire or a pulley to each of the single eyelets and hang the light from a ceiling or a structure
- 2) Insert the power plug correctly into the light and tighten the safety ring.
- 3) Now plug the power plug into a properly earthed socket
- 4) Make sure that your power supply is enough when using multiple lights
- 5) The Magnus led should be positioned above your canopy at a distance that creates your ideal coverage
- 6) Make sure you set the switch on local if you are not using multiple lights connected to each other or when using a computer program to run your LED
- 7) You can now turn the dimming button to set the light strength accordingly.

Only for liquid-cooled

IMPORTANT, for the MW series (liquid-cooled) you require a chiller. We have both passive and active (pressurized) chillers in our range. If you are using the liquid-cooled units, please use a mixture of anti-freeze (glycol) and water to avoid legionella bacteria build-up. Rule of thumb is 90% demineralized water and 10% glycol. Please note, that the ambient temperature and the chiller temperature should never differ more than 5 degrees Celsius.

NEVER USE DISTILLED WATER; THIS WILL DAMAGE THE LED

Advice:

We advise to use only white walls, floor and ceiling for improved reflection. To improve yield, we recommend using our supplemental lighting. The MI-120 is an inter-connectable inter light, the MI 120. This inter light has bidirectional lighting that will improve flowering on the lower branches.

CHAPTER 2: FARRED CONTROL & LIGHT DIMMER

LIGHT DIMMER:

The Magnus Light COB series have a light intensity dimmer ranging from 10 to 100%.

VEGETATION PHASE:

Light distance: 60cm above your canopy (ml270&365) 40cm (ML-150+)
Light intensity: Seedlings: Turn the dimmer to 70% (number 7) and build it up to 100% in 1 week.
Clones: Turn the dimmer to 50% (number 5) and build it up to 100% in 2 weeks.
Farred dimmer: The farred dimmer has to be switch off during the vegetation phase.

FLOWERING PHASE

Light distance: 60cm above your canopy (ml270&365) 40cm (ML-150+)
Light intensity: You can use 100% of the light intensity.
Farred dimmer: Towards the end you are going to reduce the farred in 18 days so that before you start rinsing/harvesting the farred dimmer is at number 0. This keeps the flowers nice and compact.

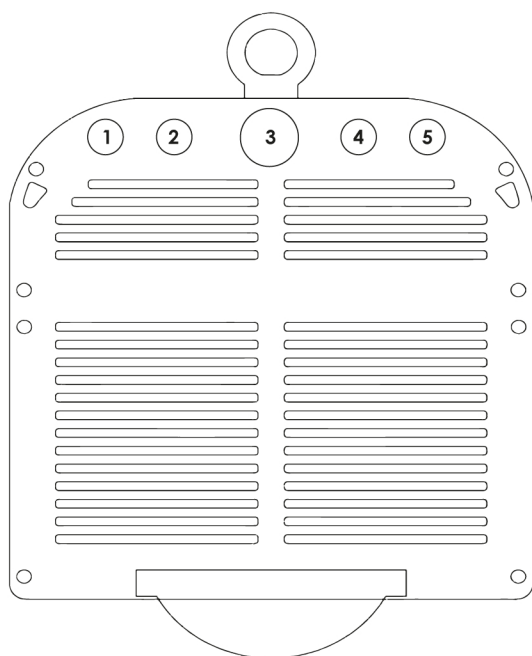
FARRED CONTROL

Our COB LED lamps are equipped with a separate far red dimmer (ML-270 WC & AC & ML-365 WC & AC) or switch (ML-150+). This ensures that the user can control the vegetative phase of the plant.

In the vegetative phase this unique color can be dimmed separately. Once switched to the duration of hours needed for the flowering period, it can be switched on to stimulate flower formation.

This unique color provides the right temperature for nutrient uptake and because it is dimmable, the user can determine the evaporation of the plant. In the final phase this color can be dimmed again so that the flowers remain compact because they do not open due heat transpiration.

In order to achieve the best results. We advise to check our VPD information on www.magnuslight.com



1: LOCAL OR REMOTE CONTROL

2: REMOTE LINE

3: POWER SUPPLY

4: LIGHT DIMMER

5: FARRED DIMMER

CHAPTER 3: WARRANTY

What Is Covered

Magnus Light products have a warranty for a period of three (3) years from the original date of purchase. During the warranty period, Magnus Light will either repair or replace any defective product. Within the first 90 days, Magnus Light will incur all costs associated with the repair, or replacement, and return of the defective product. After 90 days, the customer will assume responsibility of shipping the defective product back to Magnus Light for the remainder of the warranty period. Magnus Light will, in turn, assume responsibility for up to €50.00 per light of the shipping fees associated with returning the repaired or replaced product back to the purchaser. Return shipping fees in excess of €50.00 will be the responsibility of the purchaser.

What is NOT Covered

This limited warranty does not cover any damage, deterioration or malfunction resulting from any alteration, modification, improper or unreasonable use or maintenance, misuse, abuse, neglect, exposure to excess moisture, fire, improper packing and shipping (such claims must be presented to the carrier), lightning, power surges, or other acts of nature. This warranty does not cover any damage, deterioration or malfunction resulting from the installation or removal of this product from any installation, any unauthorized tampering with this product, any repairs attempted by anyone unauthorized by Magnus Light to make such repairs, or any other cause which does not relate directly to a defect in materials and/or workmanship of this product.

For consumers the standard warranty on both air-cooled and water-cooled leds is 3 years.

For all questions please contact us through mail.
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