

DIMLUX EXPERT SERIES

The entire DimLux Expert Series of fixtures is adapted for 230V connections. The inrush current is very low due to the Soft-start function. The system has a dim button with 7 steps and a Soft-Off function, diagnosis LEDs and 15 to 20% overdrive. If the DimLux Expert Series fixture is connected to the Maxi Controller, the ballast will be regulated variably without any inrush current.



315 WATT FULL SPECTRUM

Complete fixture with 315W Xtreme ballast, 315W Full Spectrum Philips lamp and Alpha Optics 98 Reflector

- Available with NanoTubes
- Dim levels: Soft-Off, 165W, 205W, 245W, 280W, 315W, 345W, 380W
- Power consumption at 315W= 331W, 1.4A at 230V
- Power consumption at boost 380W= 399W, 1.7A at 230V
- System PPF at 380W= 706umol/s
- Illumination surface:
 - at 315W= min 0.42m² (4.52ft²), max 1m² (10.76ft²)
 - at 380W= min 0.5m² (5.38ft²), max 1.2m² (12.91ft²)
- ø50mm (2") connection for active extraction
- Dimensions 530x275x130mm (20.8"x10.8"x5.1")
- Weight 4.9kg (10.80lbs)



630 WATT DUAL FULL SPECTRUM

Complete fixture with 630W Xtreme ballast, 2x315W Full Spectrum Philips lamp and Alpha Optics 98 Reflector

- Available with NanoTubes
- Dim levels: Soft-Off, 330W, 410W, 490W, 560W, 630W, 690W, 760W
- Power consumption at 630W= 662W, 2.7A at 230V
- Power consumption at boost 760W= 799W, 3.5A at 230V
- System PPF at 760W= 1,411 umol/s
- Illumination surface:
 - at 630W= min 0.84m² (9.04ft²), max 2m² (21.52ft²)
 - at 760W= min 1m² (10.76ft²), max. 2.4m² (25.83ft²)
- ø50mm (2") connection for active extraction
- Dimensions 675x275x130mm (26.5"x10.8"x5.1")
- Weight 6.3kg (13.88lbs)



600 WATT EL UHF

Complete fixture with 600W Xtreme ballast, 600W 400V EL Philips lamp and Alpha Optics 98 Reflector

- Available with NanoTubes
- Dim levels: Soft-Off, 320W, 390W, 460W, 530W, 600W, 645W, 690W
- Power consumption at 600W= 630W, 2.7A at 230V
- Power consumption at boost 690W= 724W, 3.1A at 230V
- System PPF at 690W= 1,341 umol/s
- Illumination surface:
 - at 600W= min 0.78m² (8.39ft²), max 2m² (21.52ft²)
 - at 690W= min 0.9m² (9.68ft²), max 2.3m² (24.75ft²)
- ø50mm (2") connection for active extraction
- Dimensions 550x275x130mm (21.6"x10.8"x5.1")
- Weight 5.1kg (11.24lbs)



1.000 WATT DE EL UHF

Complete fixture with 1.000W Xtreme ballast, 1.000W 400V EL Philips lamp and Alpha Optics 98 Reflector

- Available with NanoTubes
- Dim levels: Soft-Off, 600W, 700W, 800W, 900W, 1.000W, 1.100W, 1.200W
- Power consumption at 1.000W = 1.050W 4.5A at 230V
- Power consumption at boost 1.200W = 1.260W, 5.2A at 230V
- System PPF at 1.200W= 2,470umol/s
- Illumination surface
 - at 1.000W= min 1.4m² (15.06ft²), max 3.3m² (35.52ft²)
 - at 1.200W= min 1.65m² (17.76ft²), max. 4m² (43.05ft²)
- ø50mm (2") connection for active extraction
- Dimensions 675x275x130mm (26.5"x10.8"x5.1")
- Weight 6.3kg (13.88lbs)



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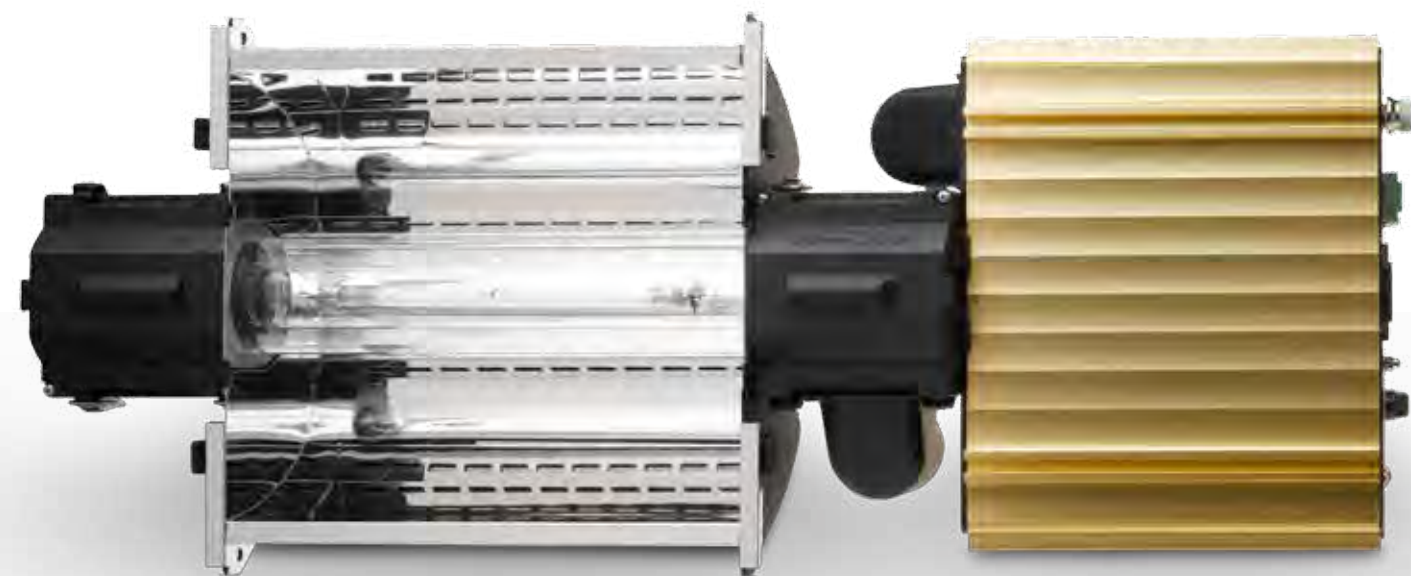
LET THERE BE LIGHT

DIMLUX

EXPERT SERIES

Reflector with the
greatest efficiency
in horticulture

98%



ALWAYS IN CONTROL

DIMLUX EXPERT SERIES

OPTIMAL CONTROL, MAXIMUM PERFORMANCE!

unparalleled
quantity of
growth light



The DimLux Expert Series is the most advanced and complete lighting system on the market. The DimLux Expert Series combines the best of two worlds. The Alpha Optics 98 Reflector in combination with the Xtreme ballast is a complete fixture with the highest level of reflector efficiency and light output on the market.

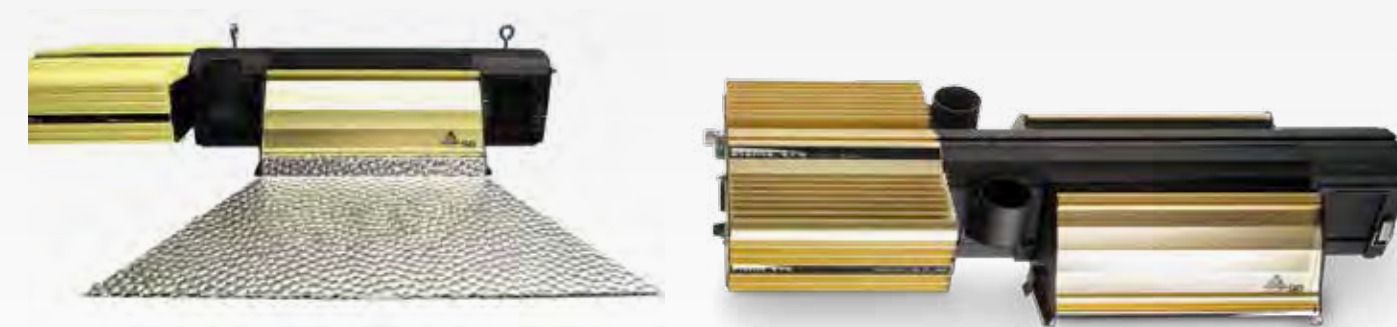
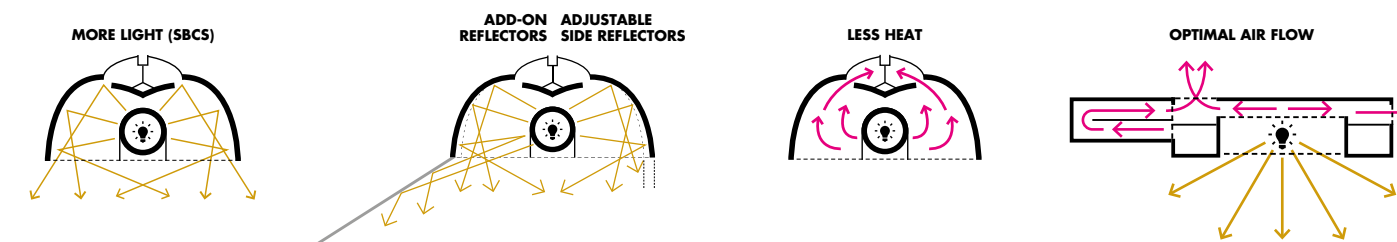
All the options of the DimLux will be used to maximum benefit if used in combination with the Maxi Controller.
The result is optimal control and maximum performance!



Alpha Optics 98 Reflector

This Alpha Optics 98 reflector was designed according to the Single Bounce Clear Sight (SBCS) principle and is equipped with Miro Silver mirrors. This achieves the highest possible level of efficiency (98%) of any commercially available horticultural reflector. The reflector is fitted with adjustable side reflectors for better overlapping and minimizing wall losses.

Thanks to the open reflector design, the lamp is passively cooled, which improves both the service life and efficiency of the lamp. Warm air can actively be extracted through a 50 mm connection on the reflector which reduces the room temperature significantly. In addition, separately available add-on reflectors can be installed to further reduce wall losses. To be used with 250-750W lamps. The reflector is replaceable.



NanoTube

The Alpha Optics 98 reflector is also available with NanoTube. This includes the same features as the Alpha Optics 98 but with additional NanoTube made from ultra-clear, nano-coated anti-reflective glass. This offers the highest possible light transmission of 99%. The overall efficiency of the reflector in combination with the NanoTube is 97%. This is even higher than any other non-cooled horticultural reflectors.

Because the air supply and discharge are connected in parallel rather than in series as is the case with conventional air-cooled reflectors, each lamp will burn at the optimum temperature rather than too cold or too hot. Because of the closed cooling system, NanoTubes used in conjunction with CO₂ systems are ideal for significantly reducing the room temperature.

Maxi Controller

The Maxi Controller is a modular control system for controlling the DimLux lighting system, a fan and the heating. The Maxi Controller controls and monitors the CO₂, vapor pressure deficit (VPD) and the plant temperature depending on the sensors chosen.

The Maxi Controller is able to control up to 160 DimLux Expert fixtures or Xtreme ballasts. The Maxi Controller is able to switch the lighting on or off silently by means of a built-in timer. The lighting can also be regulated variably until the desired output is reached.

The Maxi Controller can adjust the output according to the temperature of the room. The DimLux lighting system is automatically dimmed once a certain temperature is exceeded. If the temperature is still too high, the Maxi Controller will switch off all or half the fixtures until the desired temperature has been reached. The DimLux Expert fixtures or Xtreme ballasts can be connected directly to a wall socket. Only the time when this is to be switched on and off needs to be entered and the set is ready for use. The desired lighting intensity can be set using the + and – buttons.



The Maxi Controller can also work with asynchronous times for example, 10 hours on and 10 hours off. This setting reduces the total cycles by almost 20%. Sunrise and sunset can also be simulated. The Maxi Controller also has a thermostat/hygrostat function. It is also possible to regulate the level of CO₂ in a closed room via an extremely accurate dual beam CO₂ sensor. This CO₂ sensor is able to control CO₂ generators and cold CO₂ installations.

The Maxi Controller is modular. The controller can be extended to include the AUX BOX, FAN/AUX BOX, CO₂ sensor, CO₂ Gas Protect sensor, a plant temperature camera, an RH sensor and a temperature sensor.



DimLux Xtreme Ballast

The DimLux Xtreme ballast achieves the highest possible light output due to the overdrive technology (boost) in combination with the 400V control.

The DimLux Xtreme Series 600-400W is a ballast suitable for both 600W and 400W lamps. You no longer need to choose.

The Xtreme ballast is also available in a 600W EL UHF version. A professional 400V EL electric lamp is connected to this ballast via 230V mains voltage. The combination of this DimLux Xtreme ballast and the GreenPower 400V EL plus ensures an unparalleled quantity of growth light comparable with a standard 750W system.



DimLux Expert Series fixtures and Xtreme ballasts

- The highest output (light) due to the overdrive (boost) and 400V technology
- The broadest dimming range of all digital ballasts
- Soft-Start, Soft-Dim, Soft-Off function
- Can be dimmed manually in 8 levels including the "off" position.
- Can be variably dimmed via the Maxi Controller
- Extensive diagnostic LEDs
- EOL function (indication to replace lamps)
- Safety features for preventing short circuits, open contact, high temperatures, too low voltage, too high voltage
- The loose Xtreme ballast is suitable for both 400W and 600W lamps
- The loose Xtreme ballast is also available in an EL version for 400V lamps



Maxi Controller

- Connecting a maximum of 160 DimLux fixtures or ballasts
- Switching DimLux lighting on or off manually or automatically
- Simulation of sunrise or sunset
- Measuring ambient temperature via a temperature sensor
- Relative humidity via an RH sensor
- Measuring plant temperature via plant temperature camera
- Display of vapor pressure deficit (VPD)
- Controlling CO₂ via a CO₂ sensor
- Detecting flammable, poisonous and harmful gasses via Gas Protect CO₂ sensor
- Display of min/max value for all sensors with a time stamp
- Data log function for all sensors
The data are stored on a USB stick (Datalog version)
- Fan control based on temperature and humidity (with the FAN/AUX BOX)
- Controlling a humidifier or dehumidifier and heating (with the AUX BOX or the FAN/AUX BOX)