

## ModuLED Mega Modular Passive Star LED Cooler ø134mm

### Features & Benefits

- For low and high bay designs from 3,700 to 14,300 lumen
- Thermal resistance range Rth 0.67 - 1.32°C/W
- Modular design with mounting holes foreseen for a wide range of LED modules and COB's:
  - All Zhaga Book 3 LED engines and holders
  - Bridgelux Gen7 Vero & Décor Vero 18/29, Vero SE & Décor Vero SE 13/18/29, Gen7 V 22
  - Citizen Citiled CLU038/03J, CLU048/04J, CLU712
  - Cree XLamp CXA/CXB18, CXA/CXB25, CXA/CXB30, CMT14/19/28, CMA15/18/25/30
  - Edison EdiPower III HM24/30/40, High Power series
  - GE Infusion M, DLM, NPM series LED module
  - LG Innotek LEMWM18 17W, 24W, LEMWM28
  - Lumileds Gen4 Luxeon 1204, 1205, 1208, 1211, 1216, 1812, 1321
  - Luminus Gen4 CXM-9(AC)/14(AC)/18/22, CIM-14/22, CLM-14/22, CGM-14/22, Gen3 CXM-11(AC)/14(AC)/18(AA)/22(AC), CIM-14(AC), CLM-14(AC)/22(AC), Dynamic CDM-18, CTM-22
  - Nichia Nichia NFCWL060-072B, NFCWD084-096B, NFCWJ108-120, NFDWJ130B, NVEWL016Z, NVCWL024Z
  - Osram PrevaLED Cube G2/AC
  - Philips Fortimo DLM Gen5
  - Prolight Opto PACF, PACG
  - Seoul Semiconductor ZC18, ZC25, ZC40, ZC60, ZC100
  - Sharp Mega Zenigata, Tiger Zenigata
  - Tridonic TALEXXmodule SLE GEN5 15mm, DLE GEN2, GEN3 65mm
  - Xicato Chip on Board LED light source XOB14/23
- Diameter 134mm - Standard height 20 / 50 / 100mm  
Other heights on request
- Extruded from highly conductive aluminum

**Zhaga**  
Book 3



### Order Information

#### LED Holders

**BENDER  
+ WIRTH**

**BJB**

**IDEAL**

**TE**  
connectivity

#### LED Brands

**bridgelux**

**CITIZEN**  
Micro HumanTech

**CREE**

**EDISON**

**GE**  
Lighting

**LG Innotek**

**LE by**  
LUMILEDS

**LUMINUS**

**NICHIA**

**OSRAM**

**OSRAM**  
Opto Semiconductors

**LED** Light for you  
powered by OSRAM  
CERTIFIED PARTNER

**PHILIPS**

**Prolight Opto**  
Technology Corporation

**SEUL**  
SEMICONDUCTOR

**SHARP**

**TRIDONIC**

**VLS** LIGHTING  
SOLUTIONS

**Xicato**

Example : ModuLED Mega 134100-B

ModuLED Mega 134 **1** - **2**

**1** Height (mm)

**2** Anodising Color  
B - Black  
C - Clear

*ModuLED Mega* is designed in this way  
that you can mount LED modules from various  
manufacturers on the same LED cooler  
Simple mounting with self tapping screws  
Recommended screw force 6lb/in  
Screws are available from MechaTronix

## ModuLED Mega Modular Passive Star LED Cooler ø134mm

### Product Details

Model n°	ModuLED Mega 13420	ModuLED Mega 13450	ModuLED Mega 134100
Dimension (mm) <sup>*1</sup>	ø134 x h20	ø134 x h50	ø134 x h100
Volume (mm <sup>3</sup> )	114021	285658	571720
Cooling Surface (mm <sup>2</sup> )	71625	161517	311336
Weight (gr)	308	771	1544
Thermal Resistance (°C/W) <sup>*2</sup>	1.32	0.88	0.67
Power Pd (W) <sup>*3</sup>	38	57	75
Heat Sink Material	AL6063-T5	AL6063-T5	AL6063-T5

<sup>\*1</sup> 3D files are available in ParaSolid, STP and IGS on request

<sup>\*2</sup> The thermal resistance Rth is determined with a calibrated heat source of 30mm x 30mm central placed on the heat sink, Tamb 40° and an open environment. Reference data @ heat sink to ambient temperature rise Ths-amb 50°C  
The thermal resistance of a LED cooler is not a fix value and will vary with the applied dissipated power Pd

<sup>\*3</sup> Dissipated power Pd. Reference data @ heat sink to ambient temperature rise Ths-amb 50°C  
The maximal dissipated power needs to be verified in function of required case temperature Tc or junction temperature Tj and related to the estimated ambient temperature where the light fixture will be placed  
Please be aware the dissipated power Pd is not the same as the electrical power Pe of a LED module

To calculate the dissipated power please use the following formula:  $Pd = Pe \times (1 - \eta_L)$

Pd - Dissipated power

Pe - Electrical power

$\eta_L$  = Light efficiency of the LED module

### Notes:

- MechaTronix reserves the right to change products or specifications without prior notice.
- Mentioned models are an extraction of full product range.
- For specific mechanical adaptations please contact MechaTronix.