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 $R_{th} = 0.67 - 1.32°C/W$
- 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 CLU03B/03J, CLU04B/04J, CLU1712
  - Cree XLamp CXA/CXB18, CXA/CXB25, CXA/CXB30, CMT14/15/28, CMA15/18/25/30
  - Edison EdiPower III HM24/30/40, High Power series
  - GE Infusion M, DLM, NPM series LED module
  - LG Innotek LEMW18B 17W, 24W, LEMW28
  - Lumileds Genlux Luxeon 1204, 1205, 1208, 1211, 1216, 1218, 1321
  - Luminus CHM-11-XH00, CHM-14 (ACxx), CVM-14, CXM-18, CVM-18, CLM-22, CXM-22, CHM-22
  - Nichia Nichia NFCW1060-072B, NFCWD084-096B, NFCW119B-120, NFDW1130B, NVEW1016Z, NVCLW024Z
  - Osram PrevaLED Cube G2/AC
  - Osram Soleriq S19
  - Philips Fortimo DLM Gen5
  - Prolight Opto PACF, PACG
  - Seoul Semiconductor 2C18, 2C25, 2C40, 2G60, 2C100
  - Sharp Mega Zenigata, Tiger Zenigata
  - Tridonic TALEXXmodule SL15 with 15mm, DLE GEN2, GEN3 25mm
  - 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

Order Information

Example: ModuLED Mega 134100-B

<table>
<thead>
<tr>
<th>LED Brands</th>
<th>LED Holders</th>
</tr>
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<tbody>
<tr>
<td>bridgelux</td>
<td>BENDER+BORTH</td>
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<tr>
<td>CITIZEN</td>
<td>BJ+B</td>
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<tr>
<td>CREE</td>
<td>IDEAL</td>
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<td>EISON</td>
<td>TE</td>
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<td>OSRAM</td>
<td>PHILIPS</td>
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<td>LUMIGONE</td>
<td>SHARP</td>
</tr>
<tr>
<td>LUMILEDS</td>
<td>XICATO</td>
</tr>
</tbody>
</table>

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°

<table>
<thead>
<tr>
<th>ModuLED Mega 13420</th>
<th>ModuLED Mega 13450</th>
<th>ModuLED Mega 134100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimension (mm)³¹</td>
<td>ø134 x h20</td>
<td>ø134 x h50</td>
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<tr>
<td>Volume (mm³)</td>
<td>114021</td>
<td>285658</td>
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<td>Cooling Surface (mm²)</td>
<td>71625</td>
<td>161517</td>
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<tr>
<td>Weight (gr)</td>
<td>308</td>
<td>771</td>
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<tr>
<td>Thermal Resistance (°C/W)²</td>
<td>1.32</td>
<td>0.88</td>
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<td>Power Pd (W)³</td>
<td>38</td>
<td>57</td>
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<td>Heat Sink Material</td>
<td>AL6063-T5</td>
<td>AL6063-T5</td>
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</tbody>
</table>

³¹ 3D files are available in ParaSolid, STP and IGS on request

² 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

³ 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 x (1-ηL)
Pd - Dissipated power
Pe - Electrical power
ηL = 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.