



## SEOUL SEMICONDUCTOR LED COOLING

ZC 6, 12, 18, 25, 40, 60, 100 COB LED arrays  
ACrich AC Zhaga 30W LED modules

- Validated Thermal Designs
- Adaptable to your Needs
- Functional & Aesthetic



SEOUL SEMICONDUCTOR

**MTX**  
**MechaTronix**

## Mastering LED Cooling

With the evolution of LED lighting over the last years, the demand for professional thermal solutions has grown exponentially. And now that we no longer remain in the realm of low power LED's, thermal management becomes a critical factor within LED fixtures. To that end, MechaTronix has developed several series of pin-fin and star heat sinks, manufactured through die casting, forging or extrusion. This has resulted in a comprehensive range of more than 400 off-the-shelf available LED coolers, for passive or active heat dissipation.

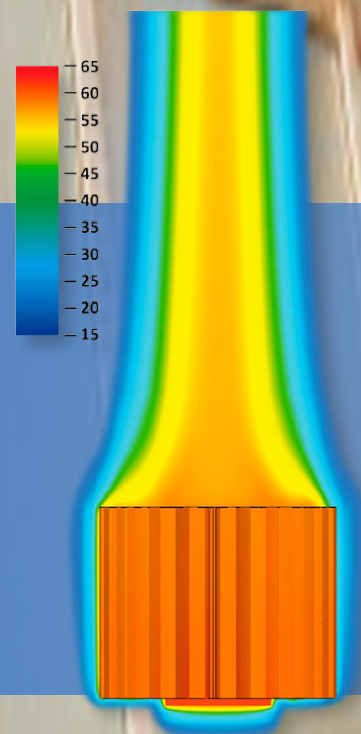
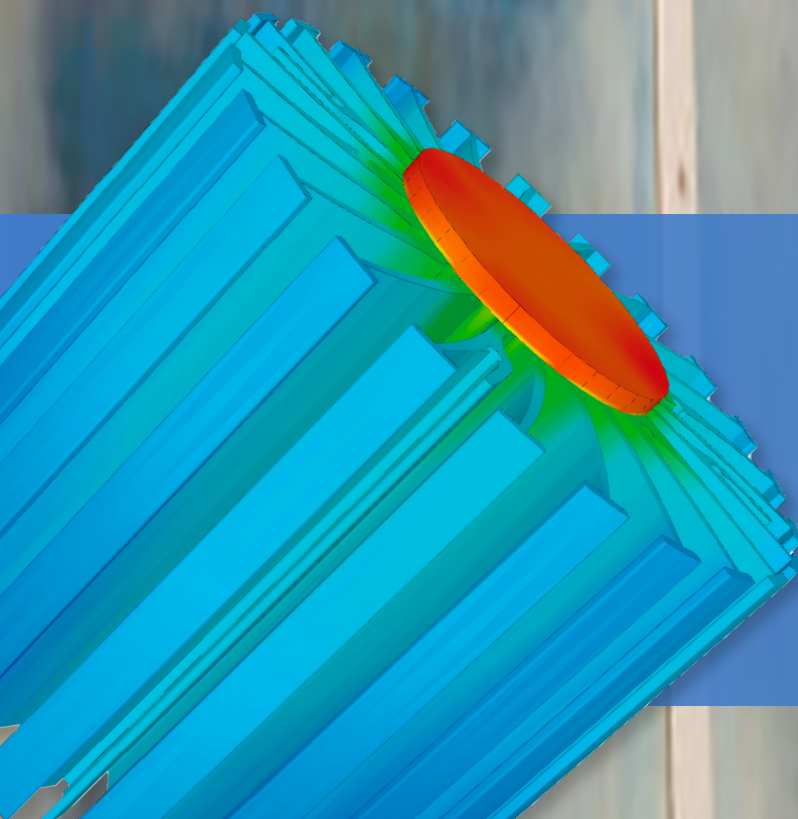
After initial reservations concerning active LED coolers, specialists have found that there really is no better option, when closing in on the 8000 lumen mark. Admittedly, the fan's lifespan becomes somewhat of a focal point in the application of an active LED cooler, but given that the lifespan of the LED engine itself dramatically decreases at high temperatures, the lifespan of the fan looks rather favourable all of a sudden.

MechaTronix' ground breaking ModuLED coolers and its actively cooled sibling IceLED have garnered a lot of attention and positive reviews in the LED market. ModuLED and IceLED are just precursors of a complete range of dedicated and highly effective LED coolers for professional deployment in spotlights, downlights, high bays and a further score of architectural and utility LED applications.

Both ModuLED and IceLED, as well as their upcoming descendants are Zhaga-ready and have a matrix of mounting holes that allows for very easy attachment of a great number of various Seoul Semiconductor LED modules. Simply apply a thermal interface of your choice, put the LED engine in place and fasten with self-tapping screws and you are good to go! No drilling, customisation or special mounting brackets are needed.

Thanks to an extremely thorough thermal verification of all heat sink lines, MechaTronix provides total thermal disclosure for each model, coupled with all Seoul Semiconductor ZC LED COB's and engines. All thermal data is available in the product specifications, that come with every MechaTronix heat sink. In this way, engineers save time and effort during the design stage of their LED fixture and will significantly shorten their time to market.

## OUR PROCESS STARTS WITH LISTENING



# SEOUL SEMICONDUCTOR LED COOLING

## ZC series COB LED modules

ZC6, -12, -18, -25, -40, -60, -100 / ACrich AC Zhaga 30W



### LPF3550-ZHC

Seoul Semiconductor LED Pin Fin cooler  
ø35mm - h50mm - Rth 7.41°C/W  
Cooling performance 300 - 1,000 lm

Direct mount	Zhaga holder	Seoul Semiconductor LED COB
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ZC6



### LPF4768-ZHP

Seoul Semiconductor LED Pin Fin cooler  
ø47mm - h68mm - Rth 3.9°C/W  
Cooling performance 600 - 2,200 lm

Direct mount	Zhaga holder	Seoul Semiconductor LED COB
	<input checked="" type="checkbox"/>	ZC6
	<input checked="" type="checkbox"/>	ZC12 / ZC18



### LPF6050-ZHC

Seoul Semiconductor LED Pin Fin cooler  
ø60mm - h50mm - Rth 4.0°C/W  
Cooling performance 500 - 1,700 lm

Direct mount	Zhaga holder	Seoul Semiconductor LED COB
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ZC6
	<input checked="" type="checkbox"/>	ZC12 / ZC18



### LPF6768-ZHP

Seoul Semiconductor LED Pin Fin cooler  
ø67mm - h68mm - Rth 2.1°C/W  
Cooling performance 1,100 - 3,300 lm

Direct mount	Zhaga holder	Seoul Semiconductor LED COB
	<input checked="" type="checkbox"/>	ZC6
	<input checked="" type="checkbox"/>	ZC12 / ZC18
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ZC25 / ZC40
		ACrich AC Zhaga 30W



### LPF8050-ZHC

Seoul Semiconductor LED Pin Fin cooler  
ø80mm - h50mm - Rth 2.34°C/W  
Cooling performance 1,000 - 3,000 lm

Direct mount	Zhaga holder	Seoul Semiconductor LED COB
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ZC12 / ZC18
	<input checked="" type="checkbox"/>	ZC25
<input checked="" type="checkbox"/>		ACrich AC Zhaga 30W



### LPF8668-ZHC

Seoul Semiconductor LED Pin Fin cooler  
ø86mm - h68mm - Rth 1.46°C/W  
Cooling performance 1,500 - 4,600 lm

Direct mount	Zhaga holder	Seoul Semiconductor LED COB
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ZC12 / ZC18
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ZC25 / ZC40
<input checked="" type="checkbox"/>		ACrich AC Zhaga 30W



### LPF11180-ZHE

Seoul Semiconductor LED Pin Fin cooler  
ø111mm - h80mm - Rth 1.07°C/W  
Cooling performance 2,000 - 6,000 lm

Direct mount	Zhaga holder	Seoul Semiconductor LED COB
	<input checked="" type="checkbox"/>	ZC18
	<input checked="" type="checkbox"/>	ZC25 / ZC40



### ModuLED Pico 4750

Seoul Semiconductor Modular LED  
Star cooler

ø47mm - h50mm - Rth 5.3°C/W  
Cooling performance 400 - 1,400 lm

Direct mount	Zhaga holder	Seoul Semiconductor LED COB
✓	✓	ZC6
✓	✓	ZC12



### ModuLED Pico 4780

Seoul Semiconductor Modular LED  
Star cooler

ø47mm - h80mm - Rth 4.2°C/W  
Cooling performance 600 - 1,800 lm

Direct mount	Zhaga holder	Seoul Semiconductor LED COB
✓	✓	ZC6
✓	✓	ZC12 / ZC18



### ModuLED Nano 7050

Seoul Semiconductor Modular LED  
Star cooler

ø70mm - h50mm - Rth 2.2°C/W  
Cooling performance 1,000 - 3,100 lm

Direct mount	Zhaga holder	Seoul Semiconductor LED COB
✓	✓	ZC6
✓	✓	ZC12 / ZC18
✓	✓	ZC25
✓		ACrich AC Zhaga 30W



### ModuLED Nano 7080

Seoul Semiconductor Modular LED  
Star cooler

ø70mm - h80mm - Rth 1.8°C/W  
Cooling performance 1,200 - 3,800 lm

Direct mount	Zhaga holder	Seoul Semiconductor LED COB
✓	✓	ZC6
✓	✓	ZC12 / ZC18
✓	✓	ZC25 / ZC40
✓		ACrich AC Zhaga 30W

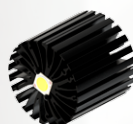


### ModuLED Micro 8650

Seoul Semiconductor Modular LED  
Star cooler

ø86mm - h50mm - Rth 1.5°C/W  
Cooling performance 1,500 - 4,500 lm

Direct mount	Zhaga holder	Seoul Semiconductor LED COB
✓	✓	ZC6
✓	✓	ZC12 / ZC18
✓	✓	ZC25 / ZC40
✓		ACrich AC Zhaga 30W

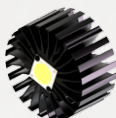


### ModuLED Micro 8680

Seoul Semiconductor Modular LED  
Star cooler

ø86mm - h80mm - Rth 1.2°C/W  
Cooling performance 1,800 - 5,500 lm

Direct mount	Zhaga holder	Seoul Semiconductor LED COB
✓	✓	ZC12 / ZC18
✓	✓	ZC25 / ZC40
✓		ACrich AC Zhaga 30W



### ModuLED 9950

Seoul Semiconductor Modular LED  
Star cooler

ø99mm - h50mm - Rth 1.34°C/W  
Cooling performance 1,600 - 5,000 lm

Direct mount	Zhaga holder	Seoul Semiconductor LED COB
✓	✓	ZC18
✓	✓	ZC25 / ZC40
✓		ACrich AC Zhaga 30W



### ModuLED 9980

Seoul Semiconductor Modular LED  
Star cooler

ø99mm - h80mm - Rth 1.02°C/W  
Cooling performance 2,100 - 6,400 lm

Direct mount	Zhaga holder	Seoul Semiconductor LED COB
✓	✓	ZC18
✓	✓	ZC25 / ZC40 / ZC60
✓		ACrich AC Zhaga 30W



### ModuLED Mega 13420

Seoul Semiconductor Modular LED  
Star cooler  
ø134mm - h20mm - Rth 1.32°C/W  
Cooling performance 1,600 - 5,000 lm

Direct mount	Zhaga holder	Seoul Semiconductor LED COB
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ZC18
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ZC25 / ZC40 / ZC60
<input checked="" type="checkbox"/>		ACrich AC Zhaga 30W



### ModuLED Mega 13450-HBG

Seoul Semiconductor High Bay LED  
cooler with direct mounting holes for  
Mean Well HBG series driver  
ø134mm - h50mm - Rth 0.88°C/W  
Cooling performance 2,400 - 7,300 lm

Direct mount	Zhaga holder	Seoul Semiconductor LED COB
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ZC40 / ZC60



### ModuLED Mega 134100-HBG

Seoul Semiconductor High Bay LED  
cooler with direct mounting holes for  
Mean Well HBG series driver  
ø134mm - h100mm - Rth 0.67°C/W  
Cooling performance 3,300 - 10,000 lm

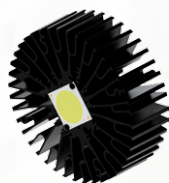
Direct mount	Zhaga holder	Seoul Semiconductor LED COB
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ZC40 / ZC60
<input checked="" type="checkbox"/>		ZC100



### ModuLED Giga 15220

Seoul Semiconductor Modular LED  
Star cooler  
ø152mm - h20mm - Rth 1.13°C/W  
Cooling performance 2,000 - 6,000 lm

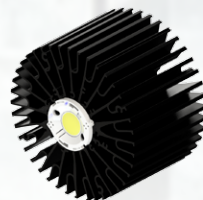
Direct mount	Zhaga holder	Seoul Semiconductor LED COB
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ZC18
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ZC25 / ZC40 / ZC60
		ACrich AC Zhaga 30W



### ModuLED Giga 15250

Seoul Semiconductor Modular LED  
Star cooler  
ø152mm - h50mm - Rth 0.7°C/W  
Cooling performance 3,000 - 9,000 lm

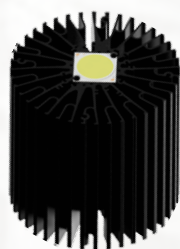
Direct mount	Zhaga holder	Seoul Semiconductor LED COB
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ZC40 / ZC60
<input checked="" type="checkbox"/>		ZC100



### ModuLED Giga 152100-HBG

Seoul Semiconductor High Bay LED  
cooler with direct mounting holes for  
Mean Well HBG series driver  
ø152mm - h100mm - Rth 0.52°C/W  
Cooling performance 4,000 - 12,000 lm

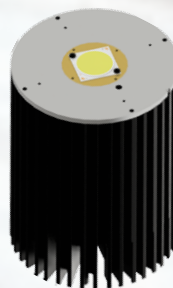
Direct mount	Zhaga holder	Seoul Semiconductor LED COB
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ZC60
<input checked="" type="checkbox"/>		ZC100



### ModuLED Giga 152150-HBG

Seoul Semiconductor High Bay LED  
cooler with direct mounting holes for  
Mean Well HBG series driver  
ø152mm - h150mm - Rth 0.46°C/W  
Cooling performance 10,000 - 16,000 lm

Direct mount	Zhaga holder	Seoul Semiconductor LED COB
<input checked="" type="checkbox"/>		ZC100



### CoolBay® Giga-A

Seoul Semiconductor High Bay LED  
cooler with CoolTube® heat tube and  
direct mounting holes for Mean Well  
HBG series driver  
ø152mm - h200mm - Rth 0.34°C/W  
Cooling performance 12,000 - 22,000 lm

Direct mount	Zhaga holder	Seoul Semiconductor LED COB
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ZC100



## CoolBay® Tera-A

Seoul Semiconductor High Bay LED cooler with CoolTube® heat tube and direct mounting holes for Mean Well HBG series driver  
 ø192mm - h250mm - Rth 0.22°C/W  
 Cooling performance 15,000 - 35,000 lm

Direct mount	Zhaga holder	Seoul Semiconductor LED COB
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ZC100



## IceLED 450

Seoul Semiconductor Modular Active LED cooler  
 ø99mm - h45mm - Rth 0.58°C/W  
 Cooling performance 3,500 - 10,500 lm

Direct mount	Zhaga holder	Seoul Semiconductor LED COB
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ZC25 / ZC40 / ZC60 ZC100



## IceLED 550

Seoul Semiconductor Modular Active LED cooler  
 ø99mm - h55mm - Rth 0.46°C/W  
 Cooling performance 4,200 - 12,800 lm

Direct mount	Zhaga holder	Seoul Semiconductor LED COB
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ZC25 / ZC40 / ZC60 ZC100



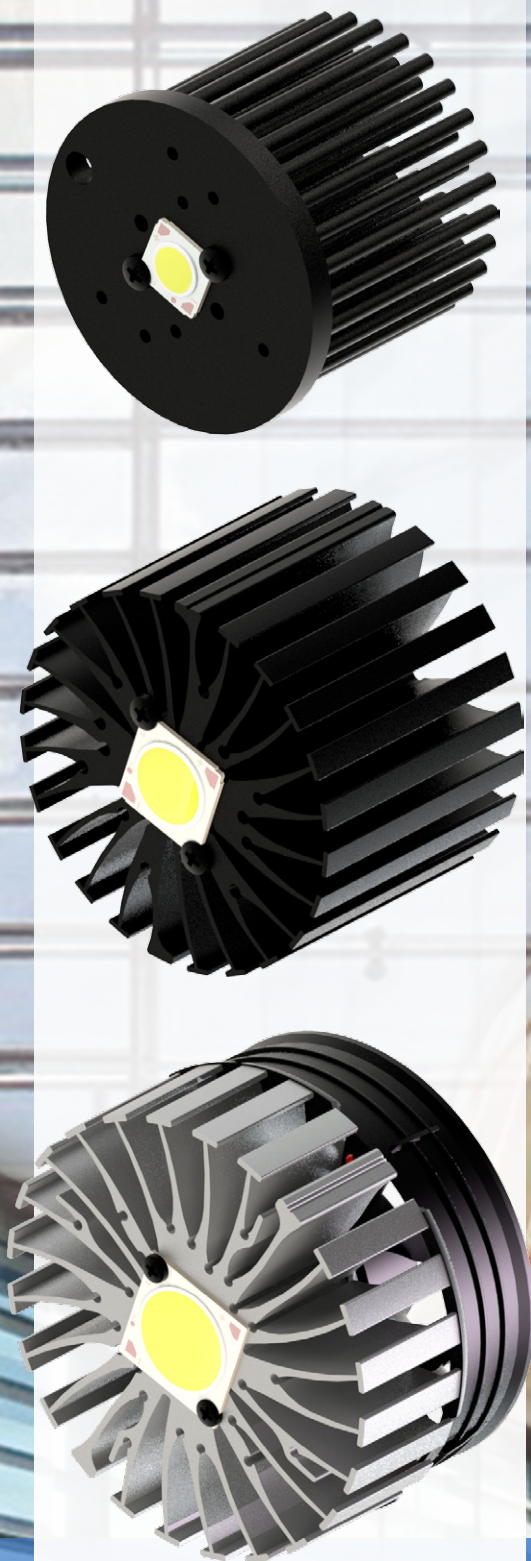
## IceLED Ultra

Seoul Semiconductor Modular Active LED cooler  
 ø99mm - h75mm - Rth 0.25°C/W  
 Cooling performance 5,000 - 20,000 lm

Direct mount	Zhaga holder	Seoul Semiconductor LED COB
<input checked="" type="checkbox"/>		ZC100

Your local distributor:

OUR PROCESS STARTS WITH LISTENING 



No.818, Dashun 2nd Rd., Sanmin Dist.  
Tel: +886-7-3815892  
led@mechatronix-asia.com

Kaohsiung City 80787 Taiwan  
Fax: +886-7-3839293  
www.led-heatsink.com