



## PHILIPS FORTIMO LED COOLING

For Philips Fortimo SLM, DLM and twistable DLM spot and down light designs

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

**PHILIPS**

**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.

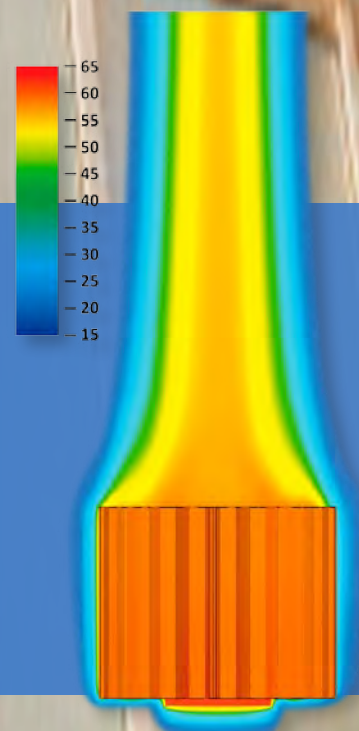
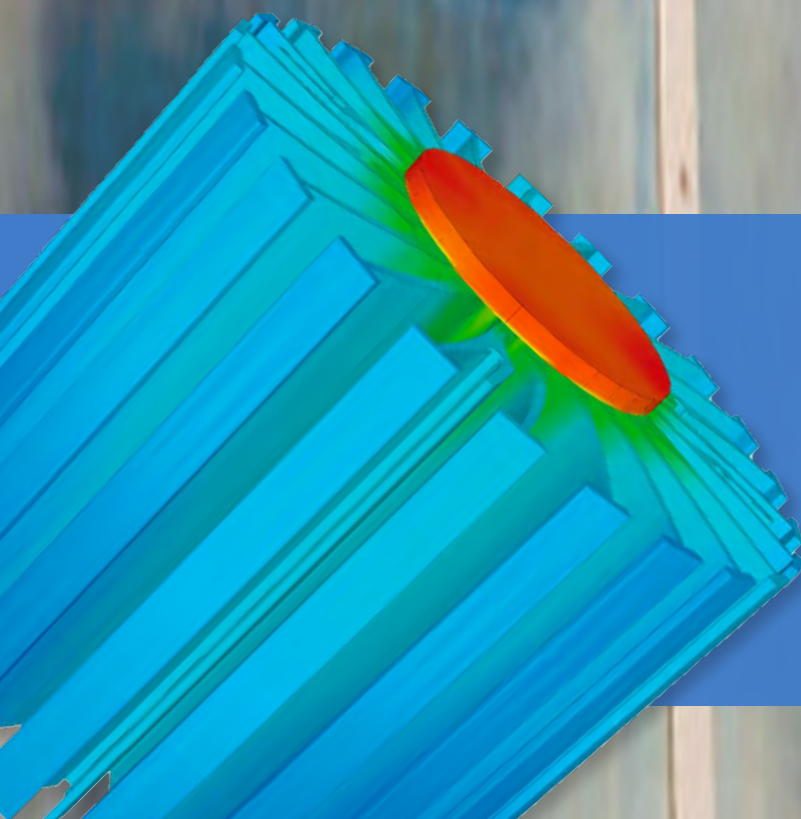
After initial reservations concerning active LED coolers, specialists have found that there really is no better option, when closing in on the 8000 lumen mark. Admittedly, the fan's lifespan becomes somewhat of a focal point in the application of an active LED cooler, but given that the lifespan of the 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 Philips 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 Philips Fortimo LED modules 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



# PHILIPS FORTIMO LED COOLING

Philips Fortimo SLM Gen4, Gen6

Philips Fortimo DLM Gen5

## LPF4768-ZHP

Philips Fortimo LED Pin Fin cooler  
ø47mm - h68mm - Rth 3.9°C/W  
Cooling performance 1,300 - 2,500 lm



Direct mount	Zhaga holder	Philips Fortimo LED COB
<input checked="" type="checkbox"/>		SLM Gen 4 1100, 2000
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SLM Gen6 1202
	<input checked="" type="checkbox"/>	SLM Gen6 1203, 1205, 1208

## LPF6050-ZHC

Philips Fortimo LED Pin Fin cooler  
ø60mm - h50mm - Rth 4.0°C/W  
Cooling performance 1,200 - 2,300 lm



Direct mount	Zhaga holder	Philips Fortimo LED COB
<input checked="" type="checkbox"/>		SLM Gen 4 1100, 2000
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SLM Gen6 1202, 1205, 1208
	<input checked="" type="checkbox"/>	SLM Gen6 1203

## LPF6768-ZHP

Philips Fortimo LED Pin Fin cooler  
ø67mm - h68mm - Rth 2.1°C/W  
Cooling performance 2,300 - 4,600 lm



Direct mount	Zhaga holder	Philips Fortimo LED COB
<input checked="" type="checkbox"/>		SLM Gen4 1100, 2000, 3000
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SLM Gen6 1203, 1205, 1208

## LPF8050-ZHC

Philips Fortimo LED Pin Fin cooler  
ø80mm - h50mm - Rth 2.34°C/W  
Cooling performance 2,000 - 4,000 lm



Direct mount	Zhaga holder	Philips Fortimo LED COB
<input checked="" type="checkbox"/>		SLM Gen4 1100, 2000, 3000
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SLM Gen6 1205, 1208
	<input checked="" type="checkbox"/>	SLM Gen6 1203

## LPF8668-ZHC

Philips Fortimo LED Pin Fin cooler  
ø86mm - h68mm - Rth 1.46°C/W  
Cooling performance 3,300 - 6,500 lm



Direct mount	Zhaga holder	Philips Fortimo LED COB
<input checked="" type="checkbox"/>		SLM Gen4 2000, 3000, 4500, 3800
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SLM Gen6 1205, 1208, 1211, 1216

## LPF11180-ZHE

Philips Fortimo LED Pin Fin cooler  
ø111mm - h80mm - Rth 1.07°C/W  
Cooling performance 4,800 - 9,600 lm



Direct mount	Zhaga holder	Philips Fortimo LED COB
<input checked="" type="checkbox"/>		SLM Gen4 3000, 4500, 3800
	<input checked="" type="checkbox"/>	SLM Gen4 1205, 1208, 1211, 1216



# PHILIPS FORTIMO LED COOLING

Philips Fortimo SLM Gen4, Gen6

Philips Fortimo DLM Gen5

## CoolStar® White 4740



Philips Fortimo Designer LED Star cooler  
ø47mm - h40mm - Rth 5°C/W  
Cooling performance 1,000 - 2,000 lm

Direct mount	Zhaga holder	Philips Fortimo LED COB
✓		SLM Gen4 1100
✓	✓	SLM Gen6 1202
	✓	SLM Gen6 1203

## CoolStar® White 4760



Philips Fortimo Designer LED Star cooler  
ø47mm - h60mm - Rth 4.17°C/W  
Cooling performance 1,200 - 2,400 lm

Direct mount	Zhaga holder	Philips Fortimo LED COB
✓		SLM Gen4 1100
✓	✓	SLM Gen6 1202
	✓	SLM Gen6 1203

## CoolStar® White 6730



Philips Fortimo Designer LED Star cooler  
ø67mm - h30mm - Rth 3.13°C/W  
Cooling performance 1,600 - 3,100 lm

Direct mount	Zhaga holder	Philips Fortimo LED COB
✓		SLM Gen4 1100, 2000
	✓	SLM Gen6 1203, 1205, 1208

## CoolStar® White 6760



Philips Fortimo Designer LED Star cooler  
ø67mm - h60mm - Rth 2.27°C/W  
Cooling performance 2,100 - 4,200 lm

Direct mount	Zhaga holder	Philips Fortimo LED COB
✓		SLM Gen4 1100, 2000, 3000
	✓	SLM Gen6 1203, 1205, 1208
		SLM Gen6 1203

## CoolStar® White 8630



Philips Fortimo Designer LED Star cooler  
ø86mm - h30mm - Rth 2.08°C/W  
Cooling performance 2,300 - 4,600 lm

Direct mount	Zhaga holder	Philips Fortimo LED COB
✓		SLM Gen4 1100, 2000, 3000
	✓	SLM Gen6 1203, 1205, 1208

## CoolStar® White 8660



Philips Fortimo Designer LED Star cooler  
ø86mm - h60mm - Rth 1.56°C/W  
Cooling performance 3,100 - 6,100 lm

Direct mount	Zhaga holder	Philips Fortimo LED COB
✓		SLM Gen4 1100, 2000, 3000
✓		SLM Gen4 4500, 3800
	✓	SLM Gen6 1205, 1208, 1211, 1216

## ModuLED Pico 4750



Philips Fortimo Modular LED Star cooler  
ø47mm - h50mm - Rth 5.3°C/W  
Cooling performance 400 - 1,400 lm

Direct mount	Zhaga holder	Philips Fortimo LED COB
✓		SLM Gen4 1100
	✓	SLM Gen6 1202
✓	✓	SLM Gen6 1203

## ModuLED Pico 4780



Philips Fortimo Modular LED Star cooler  
ø47mm - h80mm - Rth 4.2°C/W  
Cooling performance 600 - 1,800 lm

Direct mount	Zhaga holder	Philips Fortimo LED COB
✓		SLM Gen4 1100, 2000
	✓	SLM Gen6 1202
✓	✓	SLM Gen6 1203, 1205

# PHILIPS FORTIMO LED COOLING

Philips Fortimo SLM Gen4, Gen6

Philips Fortimo DLM Gen5

## ModuLED Nano 7050

Philips Fortimo Modular LED Star cooler  
ø70mm - h50mm - Rth 2.2°C/W  
Cooling performance 1,000 - 3,100 lm



Direct mount	Zhaga holder	Philips Fortimo LED COB
<input checked="" type="checkbox"/>		SLM Gen4 1100, 2000, 3000
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SLM Gen6 1202
	<input checked="" type="checkbox"/>	SLM Gen6 1203, 1205, 1208

## ModuLED Nano 7080

Philips Fortimo Modular LED Star cooler  
ø70mm - h80mm - Rth 1.8°C/W  
Cooling performance 1,200 - 3,800 lm



Direct mount	Zhaga holder	Philips Fortimo LED COB
<input checked="" type="checkbox"/>		SLM Gen4 1100, 2000, 3000
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SLM Gen6 1205, 1208
	<input checked="" type="checkbox"/>	SLM Gen6 1216

## ModuLED Micro 8630

Philips Fortimo Modular LED Star cooler  
ø86mm - h30mm - Rth 1.8°C/W  
Cooling performance 2,700 - 5,300 lm



Direct mount	Zhaga holder	Philips Fortimo LED COB
<input checked="" type="checkbox"/>		SLM Gen4 1100, 2000, 3000
<input checked="" type="checkbox"/>		SLM Gen6 1205, 1208
	<input checked="" type="checkbox"/>	SLM Gen6 1216
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	DLM Gen5 2000, 3000

## ModuLED Micro 8650

Philips Fortimo Modular LED Star cooler  
ø86mm - h50mm - Rth 1.5°C/W  
Cooling performance 1,500 - 4,500 lm



Direct mount	Zhaga holder	Philips Fortimo LED COB
<input checked="" type="checkbox"/>		SLM Gen4 1100, 2000, 3000
<input checked="" type="checkbox"/>		SLM Gen4 4500, 3800
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SLM Gen6 1205, 1208
	<input checked="" type="checkbox"/>	SLM Gen6 1211, 1216
<input checked="" type="checkbox"/>		DLM Gen5 3000

## ModuLED Micro 8680

Philips Fortimo Modular LED Star cooler  
ø86mm - h80mm - Rth 1.2°C/W  
Cooling performance 1,800 - 5,500 lm



Direct mount	Zhaga holder	Philips Fortimo LED COB
<input checked="" type="checkbox"/>		SLM Gen4 3000, 4500, 3800
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SLM Gen6 1208
	<input checked="" type="checkbox"/>	SLM Gen6 1211, 1216

## ModuLED Xtra 9950

Philips Fortimo Modular LED Star cooler  
ø99mm - h50mm - Rth 1.34°C/W  
Cooling performance 1,600 - 5,000 lm



Direct mount	Zhaga holder	Philips Fortimo LED COB
<input checked="" type="checkbox"/>		SLM Gen4 2000, 3000, 4500, 3800
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SLM Gen6 1205, 1208
	<input checked="" type="checkbox"/>	SLM Gen6 1211, 1216

## ModuLED Xtra 9980

Philips Fortimo Modular LED Star cooler  
ø99mm - h80mm - Rth 1.02°C/W  
Cooling performance 2,100 - 6,400 lm



Direct mount	Zhaga holder	Philips Fortimo LED COB
<input checked="" type="checkbox"/>		SLM Gen4 3000, 4500, 3800
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SLM Gen6 1208
	<input checked="" type="checkbox"/>	SLM Gen6 1211, 1216

## ModuLED Mega 13420

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



Direct mount	Zhaga holder	Philips Fortimo LED COB
<input checked="" type="checkbox"/>		SLM Gen4 2000, 3000, 4500, 3800
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SLM Gen6 1205, 1208
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SLM Gen6 1211, 1216



# PHILIPS FORTIMO LED COOLING

Philips Fortimo SLM Gen4, Gen6

Philips Fortimo DLM Gen5

## ModuLED Mega 13450-HBG



Philips Fortimo High Bay LED cooler with driver connection system  
ø134mm - h50mm - Rth 0.88°C/W  
Cooling performance 2,400 - 7,300 lm

Direct mount	Zhaga holder	Philips Fortimo LED COB
<input checked="" type="checkbox"/>	<input type="checkbox"/>	SLM Gen4 3000, 4500, 3800
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SLM Gen6 1208
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SLM Gen6 1211, 1216

## ModuLED Mega 134100-HBG



Philips Fortimo High Bay LED cooler with driver connection system  
ø134mm - h100mm - Rth 0.67°C/W  
Cooling performance 3,300 - 10,000 lm

Direct mount	Zhaga holder	Philips Fortimo LED COB
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SLM Gen6 1216

## ModuLED Giga 15220



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

Direct mount	Zhaga holder	Philips Fortimo LED COB
<input checked="" type="checkbox"/>	<input type="checkbox"/>	SLM Gen4 3000, 4500, 3800
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SLM Gen6 1208, 1211, 1216

## ModuLED Giga 15250



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

Direct mount	Zhaga holder	Philips Fortimo LED COB
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SLM Gen6 1211, 1216



Your local distributor:

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

Kaohsiung City 80787 Taiwan  
Fax: +886-7-3839293  
[www.led-heatsink.com](http://www.led-heatsink.com)