

# Unlock New Opportunities in LED Lighting



## Nuventix SynJet® Thermal Solutions for Philips® Fortimo LED Modules

### Features

- Enables higher lumen packages
- Up to 1/3 the size of passive cooling
- Lighter weight than passive solutions
- Energy efficient
- Quiet operation
- 100K hours lifetime
- Thermally engineered and designed specifically for Philips LED Modules
- Philips LED drivers have a built in power connection for the SynJet for a Plug and Play solution

### Benefits

- Flexible design for smaller overall luminaires - Contemporary form or height limited areas
- Easy to design in for fastest time to market
- Minimal additional power required for cooling
- Excellent in low noise requirement areas
- Cooling life is longer than the module or driver - does not limit luminaire usable life
- One heat sink design can be used for higher and lower lumen offerings by coupling with a SynJet cooler, allowing higher lumen fixtures with the same form factor

# Nuventix SynJet® Coolers and Heatsinks for Philips® Fortimo LED Modules

**Guide:**

- Please see the legend below for the ambient temperature rating of each solution.
- All solutions in these tables are in accordance with recommended acoustic noise levels for lighting applications. For noise sensitive applications, choose “Heatsink Only” “Standard” or “Silent” cooling solutions.
- For Nuventix part numbers, see page 6 of this guide.

## Philips Fortimo SLM LED Modules

Heatsink	Spotlight Cooler 38W				Spotlight Cooler 34W				Spotlight Cooler 31W			
	ZFlow 75				ZFlow 75				ZFlow 75			
SynJet	High	Mid	Standard	Heatsink Only	High	Mid	Standard	Heatsink Only	High	Mid	Standard	Heatsink Only
Fortimo LED SLM 800	Green	Green	Green	Green	Green	Green	Green	Yellow	Green	Green	Green	Orange
Fortimo LED SLM 1100	Green	Green	Green	Yellow	Green	Green	Green	Grey	Green	Green	Green	Grey
Fortimo LED SLM 1500	Green	Green	Green	Orange	Green	Green	Green	Grey	Green	Green	Green	Grey
Fortimo LED SLM 2000	Green	Yellow	Yellow	Grey	Yellow	Yellow	Yellow	Grey	Yellow	Orange	Orange	Grey
Fortimo LED SLM 3000	Orange	Orange	Orange	Grey	Orange	Orange	Orange	Grey	Orange	Grey	Grey	Grey
Lexel LED SLM 1100 TW	Green	Green	Green	Orange	Green	Green	Green	Grey	Green	Green	Green	Grey
Lexel LED SLM 800 RGB	Green	Green	Green	Grey	Green	Green	Green	Grey	Green	Green	Yellow	Grey
Fortimo LED SLM 1100 Gen 2 Tght Bm	Green	Green	Green	Green	Green	Green	Green	Orange	Green	Green	Green	Grey
Fortimo LED SLM 2000 Gen 2 8XX	Green	Green	Green	Orange	Green	Green	Green	Grey	Green	Green	Green	Grey
Fortimo LED SLM 2000 Gen 2 9XX	Green	Green	Green	Grey	Green	Green	Green	Grey	Green	Green	Yellow	Grey
Fortimo LED SLM 3000 Gen 2 8XX	Green	Yellow	Yellow	Grey	Yellow	Yellow	Yellow	Grey	Yellow	Orange	Orange	Grey

Legend
Supported up to 40C+ ambient
Supported up to 35C ambient
Supported up to 25C ambient
Not Supported



**Notes:**

- 1) Compatibility is based on following the guidelines outlined in Nuventix SynJet Design Guide.
- 2) A functional test should always be performed on the complete luminaire in the worst case ambient condition.

# Nuventix SynJet® Coolers and Heatsinks for Philips® Fortimo LED Modules

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Philips Fortimo SLM LED Modules										
Heatsink	Spotlight Cooler 60W					Spotlight Cooler 70W				
SynJet	ZFlow 90					ZFlow 90				
SynJet Setting	PWM @100%	Mid	Standard	Silent	Heatsink Only	PWM @100%	Mid	Standard	Silent	Heatsink Only
Fortimo LED SLM 800										
Fortimo LED SLM 1100										
Fortimo LED SLM 1500										
Fortimo LED SLM 2000										
Fortimo LED SLM 3000										
Lexel LED SLM 1100 TW										
Lexel LED SLM 800 RGB										
Fortimo LED SLM 1100 Gen 2 Tght Bm										
Fortimo LED SLM 2000 Gen 2 8XX										
Fortimo LED SLM 2000 Gen 2 9XX										
Fortimo LED SLM 3000 Gen 2 8XX										

Legend
Supported up to 40C+ ambient
Supported up to 35C ambient
Supported up to 25C ambient
Not Supported



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# Nuventix SynJet® Coolers and Heatsinks for Philips® Fortimo LED Modules

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- Please see the legend below for the ambient temperature rating of each solution.
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- For Nuventix part numbers, see page 6 of this guide.

## Philips Fortimo SLM LED Modules

Heatsink	PAR30 Cooler 40W				PAR25 Cooler 32W				PAR20 Cooler 24W			
SynJet	ZFlow 65				ZFlow 65				ZFlow 65			
SynJet Setting	High	Standard	Silent	Heatsink Only	High	Standard	Silent	Heatsink Only	High	Standard	Silent	Heatsink Only
Fortimo LED SLM 800	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Not Supported	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Not Supported
Fortimo LED SLM 1100	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Not Supported	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Not Supported	Supported up to 40C+ ambient	Supported up to 35C ambient	Not Supported	Not Supported
Fortimo LED SLM 1500	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 35C ambient	Not Supported	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 35C ambient	Not Supported	Supported up to 35C ambient	Not Supported	Not Supported	Not Supported
Fortimo LED SLM 2000	Supported up to 35C ambient	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported
Fortimo LED SLM 3000	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported
Lexel LED SLM 1100 TW	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 35C ambient	Not Supported	Supported up to 40C+ ambient	Supported up to 35C ambient	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported
Lexel LED SLM 800 RGB	Supported up to 40C+ ambient	Supported up to 35C ambient	Not Supported	Not Supported	Supported up to 35C ambient	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported
Fortimo LED SLM 1100 Gen 2 Tght Bm	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 35C ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Not Supported	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 35C ambient	Not Supported
Fortimo LED SLM 2000 Gen 2 8XX	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Not Supported	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 35C ambient	Not Supported	Supported up to 35C ambient	Not Supported	Not Supported	Not Supported
Fortimo LED SLM 2000 Gen 2 9XX	Supported up to 40C+ ambient	Supported up to 35C ambient	Not Supported	Not Supported	Supported up to 35C ambient	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported
Fortimo LED SLM 3000 Gen 2 8XX	Supported up to 35C ambient	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported

Legend
Supported up to 40C+ ambient
Supported up to 35C ambient
Supported up to 25C ambient
Not Supported



**Notes:**

- 1) Compatibility is based on following the guidelines outlined in Nuventix SynJet Design Guide.
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# Nuventix SynJet® Coolers and Heatsinks for Philips® Fortimo LED Modules

**Guide:**

- Please see the legend below for the ambient temperature rating of each solution.
- All solutions in these tables are in accordance with recommended acoustic noise levels for lighting applications. For noise sensitive applications, choose "Heatsink Only" "Standard" or "Silent" cooling solutions.
- For Nuventix part numbers, see page 6 of this guide.

Philips Fortimo DLM LED Modules								
Heatsink	Downlight Cooler 140, 48W				Downlight Cooler 120, 40W			
SynJet	ZFlow 100				ZFlow 100			
SynJet Setting	High	Standard	Silent	Heatsink Only	High	Standard	Silent	Heatsink Only
Fortimo LED DLM 1100 Gen 2	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient
Fortimo LED DLM 2000 Gen 2	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Not Supported	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Not Supported
Fortimo LED DLM 3000 Gen 2	Supported up to 40C+ ambient	Supported up to 35C ambient	Supported up to 25C ambient	Not Supported	Supported up to 40C+ ambient	Supported up to 25C ambient	Supported up to 40C+ ambient	Not Supported
Fortimo LED DLM 1100 830 Gen 3	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient
Fortimo LED DLM 1100 840 Gen 3	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient
Fortimo LED DLM 2000 830 Gen 3	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Not Supported
Fortimo LED DLM 2000 840 Gen 3	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 25C ambient
Fortimo LED DLM 3000 830 Gen 3	Supported up to 40C+ ambient	Supported up to 35C ambient	Supported up to 25C ambient	Not Supported	Supported up to 40C+ ambient	Supported up to 25C ambient	Supported up to 40C+ ambient	Not Supported
Fortimo LED DLM 3000 840 Gen 3	Supported up to 40C+ ambient	Supported up to 35C ambient	Supported up to 25C ambient	Not Supported	Supported up to 40C+ ambient	Supported up to 25C ambient	Supported up to 40C+ ambient	Not Supported
Fortimo LED DLM 1800 Food30	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Not Supported	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 35C ambient
Fortimo LED DLM 2000 Food40	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Not Supported	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 35C ambient
Lexel LED DLM 1100 Gen 2	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 25C ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Not Supported
Lexel LED DLM 2000 Gen 2	Supported up to 40C+ ambient	Supported up to 35C ambient	Supported up to 25C ambient	Not Supported	Supported up to 40C+ ambient	Supported up to 25C ambient	Supported up to 40C+ ambient	Not Supported



Philips Fortimo Twistable LED Modules								
Heatsink	Twist Module Cooler 40W				Downlight Cooler 140, 48W			
SynJet	ZFlow 65				ZFlow 100			
SynJet Setting	High	Standard	Silent	Heatsink Only	High	Standard	Silent	Heatsink Only
Fortimo Twistable 1100 - 25K L70	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient
Fortimo Twistable 1100 - 50K L70	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 25C ambient	Not Supported	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 35C ambient



Legend
Supported up to 40C+ ambient
Supported up to 35C ambient
Supported up to 25C ambient
Not Supported

**Notes:**

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- For Nuventix part numbers, see the table at the bottom of this page.

Philips Fortimo LLM LED Modules		
Heatsink	Linear Light Cooler 22W	
SynJet	XFlow 30	
SynJet Setting	Standard	Heatsink Only
Fortimo LED LLM 1800 740	Supported up to 35C ambient	Supported up to 25C ambient
Fortimo LED LLM 1800 730	Supported up to 35C ambient	Supported up to 25C ambient
Fortimo LED LLM 1100 740	Supported up to 40C+ ambient	Supported up to 35C ambient
Fortimo LED LLM 1100 730	Supported up to 40C+ ambient	Supported up to 35C ambient



Legend
Supported up to 40C+ ambient
Supported up to 35C ambient
Supported up to 25C ambient
Not Supported

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## Nuventix Part Number Guide

Downlight Cooler 120, 40W	HSSLS-CALBL-005	Heatsink, 40W, Downlight Cooler 120, Philips DLM and Lexel, Black
Downlight Cooler 140, 48W	HSSLS-CALBL-003	Heatsink, 48W, Downlight Cooler 140, Philips DLM and Lexel, Black
Downlight Cooler 140, 48W	HSSLS-CALCL-012	Heatsink, 48W, Downlight Cooler 140, Philips DLM and Lexel, Twistable, Zhaga B2, Silver
Linear Light Cooler 30W	NX301100	Heatsink, 22W, Linear Light Cooler, Philips LLM, Black
Par20 Cooler 24W	HP20S-CALBL-001	Heatsink, 24W, PAR20 Style, Configurable, Black
Par25 Cooler 32W	HP25S-CALBL-001	Heatsink, 32W, PAR25 Style, Configurable, Black
Par30 Cooler 40W	HP30S-CALBL-001	Heatsink, 40W, PAR30 Style, Configurable, Black
Spotlight Cooler 31W	HSLCS-CALCL-001	Heatsink, 31W, Spotlight Cooler, Philips SLM, Silver
Spotlight Cooler 34W	HSLCS-CALBL-001	Heatsink, 34W, Spotlight Cooler, Philips SLM, Black
Spotlight Cooler 38W	HSLCS-CALBL-012	Heatsink, 38W, Spotlight Cooler, Philips SLM, Black
Spotlight Cooler 60W	NX300101	Heatsink, 60W, Spotlight Cooler, Philips SLM, Al, Black
SynJet ZFlow 65	SPARS-CM012-002	SynJet, ZFlow 65, Level Select, 12V
SynJet ZFlow 75	SSLCS-CM012-002	SynJet, ZFlow 75, Level Select, 12V
SynJet ZFlow 90	NX200102	SynJet, ZFlow 90, Level Select, 12V
SynJet ZFlow 100	SSSLS-CM012-017	SynJet, ZFlow 100, Level Select, 12V
SynJet XFlow 30	SSCCS-IM012-002	SynJet, XFlow 30, Standard Performance PWM, 12V
Wire Harness	WALLS-C4150-001	SynJet Wire Harness, 4wire, 150mm
	WALLS-C4240-001	SynJet Wire Harness, 4wire, 240mm
	WALLS-C4370-001	SynJet Wire Harness, 4wire, 370mm
	WALLS-C4600-001	SynJet Wire Harness, 4wire, 600mm