

# Unlock New Opportunities in LED Lighting



## Nuventix SynJet® Thermal Solutions for **VS** VOSSLOH SCHWABE 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 Vossloh Schwabe LED Modules
- Vossloh Schwabe LED Modules 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 Vossloh Schwabe 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 "Standard" or "Silent" cooling solutions.
- For Nuventix part numbers, see page 4 of this guide.

Vossloh Schwabe LED Modules												
Heatsink	Spotlight Cooler 38W				Spotlight Cooler 34W				Spotlight Cooler 31W			
SynJet	ZFlow 75				ZFlow 75				ZFlow 75			
SynJet Setting	High	Mid	Standard	Heatsink Only	High	Mid	Standard	Heatsink Only	High	Mid	Standard	Heatsink Only
WU-M-403 @ 700 mA	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 40C+ ambient	Supported up to 35C ambient	Supported up to 35C ambient	Not Supported
WU-M-404 @ 700 mA	Supported up to 40C+ ambient	Supported up to 35C ambient	Supported up to 35C ambient	Not Supported	Supported up to 35C ambient	Supported up to 35C ambient	Supported up to 35C ambient	Not Supported	Supported up to 35C ambient	Supported up to 25C ambient	Supported up to 25C ambient	Not Supported
WU-M-405 @ 700 mA	Supported up to 35C ambient	Supported up to 25C ambient	Supported up to 25C ambient	Not Supported	Supported up to 25C ambient	Supported up to 25C ambient	Supported up to 25C ambient	Not Supported	Supported up to 25C ambient	Not Supported	Not Supported	Not Supported
WU-M-403 @ 1050 mA	Supported up to 25C ambient	Supported up to 25C ambient	Supported up to 25C ambient	Not Supported	Supported up to 25C ambient	Supported up to 25C ambient	Supported up to 25C ambient	Not Supported	Supported up to 25C ambient	Not Supported	Not Supported	Not Supported
WU-M-404 @ 1050 mA	Supported up to 25C ambient	Not Supported	Not Supported	Not Supported	Supported up to 25C ambient	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported
WU-M-405 @ 1050 mA	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported

Vossloh Schwabe LED Modules					
Heatsink	Spotlight Cooler 60W				
SynJet	ZFlow 90				
SynJet Setting	PWM @100%	Mid	Standard	Silent	Heatsink Only
WU-M-403 @ 700 mA	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
WU-M-404 @ 700 mA	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Not Supported
WU-M-405 @ 700 mA	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 35C ambient	Not Supported
WU-M-403 @ 1050 mA	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 35C ambient	Supported up to 35C ambient	Not Supported
WU-M-404 @ 1050 mA	Supported up to 35C ambient	Supported up to 35C ambient	Supported up to 25C ambient	Supported up to 25C ambient	Not Supported
WU-M-405 @ 1050 mA	Supported up to 25C ambient	Supported up to 25C ambient	Supported up to 25C ambient	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.
- 2) A functional test should always be performed on the complete luminaire in the worst case ambient condition.
- 3) The SynJet should not be powered with the 12V VS on-board interface if the VS LED Module will be PWM dimmed. If the application requires the use of PWM dimming, a separate power supply is required to power the SynJet.

# Nuventix SynJet® Coolers and Heatsinks for Vossloh Schwabe LED Modules

## Guide:

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- For Nuventix part numbers, see page 4 of this guide.

Vossloh Schwabe LED Modules				
Heatsink	Downlight Cooler 140, 48W			
SynJet	ZFlow 100			
SynJet Setting	High	Standard	Silent	Heatsink Only
WU-M-403 @ 700 mA	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Not Supported
WU-M-404 @ 700 mA	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 35C ambient	Not Supported
WU-M-405 @ 700 mA	Supported up to 40C+ ambient	Supported up to 35C ambient	Supported up to 25C ambient	Not Supported
WU-M-403 @ 1050 mA	Supported up to 35C ambient	Supported up to 35C ambient	Supported up to 25C ambient	Not Supported
WU-M-404 @ 1050 mA	Supported up to 35C ambient	Supported up to 25C ambient	Not Supported	Not Supported
WU-M-405 @ 1050 mA	Supported up to 25C ambient	Not Supported	Not Supported	Not Supported



Vossloh Schwabe LED Modules								
Heatsink	Par30 Cooler 40W				Par25 Cooler 32W			
SynJet	ZFlow 65				ZFlow 65			
SynJet Setting	High	Standard	Silent	Heatsink Only	High	Standard	Silent	Heatsink Only
WU-M-403 @ 700 mA	Supported up to 35C ambient	Supported up to 25C ambient	Supported up to 25C ambient	Not Supported	Supported up to 25C ambient	Supported up to 25C ambient	Not Supported	Not Supported
WU-M-404 @ 700 mA	Supported up to 35C ambient	Supported up to 25C ambient	Not Supported	Not Supported	Supported up to 25C ambient	Not Supported	Not Supported	Not Supported
WU-M-405 @ 700 mA	Supported up to 25C ambient	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported
WU-M-403 @ 1050 mA	Supported up to 25C ambient	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported
WU-M-404 @ 1050 mA	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported
WU-M-405 @ 1050 mA	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



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- 3) The SynJet should not be powered with the 12V VS on-board interface if the VS LED Module will be PWM dimmed. If the application requires the use of PWM dimming, a separate power supply is required to power the SynJet.

# Nuventix SynJet® Coolers and Heatsinks for for Vossloh Schwabe LED Modules

## Nuventix Part Number Guide

Downlight Cooler 140, 48W	HSSLS-CALCL-008	Heatsink, 48W, Downlight Cooler 140, No Lower Fins, Philips Fortimo and Lexel, Stark DLE, Silver
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, Vossloh Schwabe, Silver
Spotlight Cooler 34W	HSLCS-CALBL-001	Heatsink, 34W, Spotlight Cooler, Philips SLM, Vossloh Schwabe, Black
Spotlight Cooler 38W	HSLCS-CALBL-012	Heatsink, 38W, Spotlight Cooler, Philips SLM, Vossloh Schwabe, Black
Spotlight Cooler 60W	NX300101	Heatsink, 60W, Spotlight Cooler, Philips SLM, Vossloh Schwabe, 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
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, 670mm