

SynJet[®] ZFlow 75 Cooler

SynJet cooling technology provides the most reliable thermal management solution available. This LED cooler has been developed by Nuventix for cooling tracklight, spotlight, and recessed downlight modules.



- Cools up to 38 W⁴
- Reliable 100K Hours Lifetime
- Energy Efficient
- 5 yr Warranty
- Small Form Factor
- Quiet Low Acoustics

Specifications¹

Thermal & Acoustic

SynJet Setting ²	Θs-a ³	TDP ⁴ (W)	SPL (dBA) ⁵	Wire Connections	
High Performance	0.80	38	28	Red to +VDC Black & Blue to Ground	
Mid Performance	0.91	33	25	Red to +VDC Black & Purple to Ground	
Standard Performance	0.97	31	22	Red to +VDC Black only to Ground	
PWM at 100% duty cycle	0.80	38	28	Red to +VDC Black only to Ground Blue to PWM Signal	

Electrical

SynJet Setting ²	Voltage (VDC) +/- 10%	Current (mA) ⁶			Pavg (mW)	Voltage (VDC) +/- 10%	Current (mA) ⁶			Pavg (mW)
		Imin	Iavg	Ipeak			Imin	Iavg	Ipeak	
High Performance	5	20	66	132	330	12	10	46	92	550
Standard			51	102	255			38	76	455
Silent			44	88	220			30	60	360
PWM at 100% duty cycle			66	132	330			46	92	550

Environmental

All Settings	Min	Max	Units	Conditions
Operating Temperature	-40	85	°C	Air temperature surrounding cooler
Storage Temperature	-50	95	°C	Air temperature surrounding cooler
Storage Altitude		15K	m	Above sea level
Operating Relative Humidity	5	95	%	Non-condensing
Weight		85	g	SynJet only
Reliability		100K	hrs	L10 @ 60°C
Regulatory Compliance				RoHS, UL, FCC Part 15 Class B, CE

¹ All values are typical at 25°C unless otherwise stated.

² The Level Select model should be used for discrete performance settings. Follow the instructions in the Product Design Guide for adjusting settings.

³ Thermal resistance values are given as reference only and are measured in free air without airflow obstructions. Thermal resistance is measured from the bottom middle of the heat sink to ambient air measured at the inlet to the SynJet, with a heat source at least 19cm² using the 38W spot cooler reference heat sink. Actual thermal performance may vary by application and final product design should be tested to assure proper thermal performance.

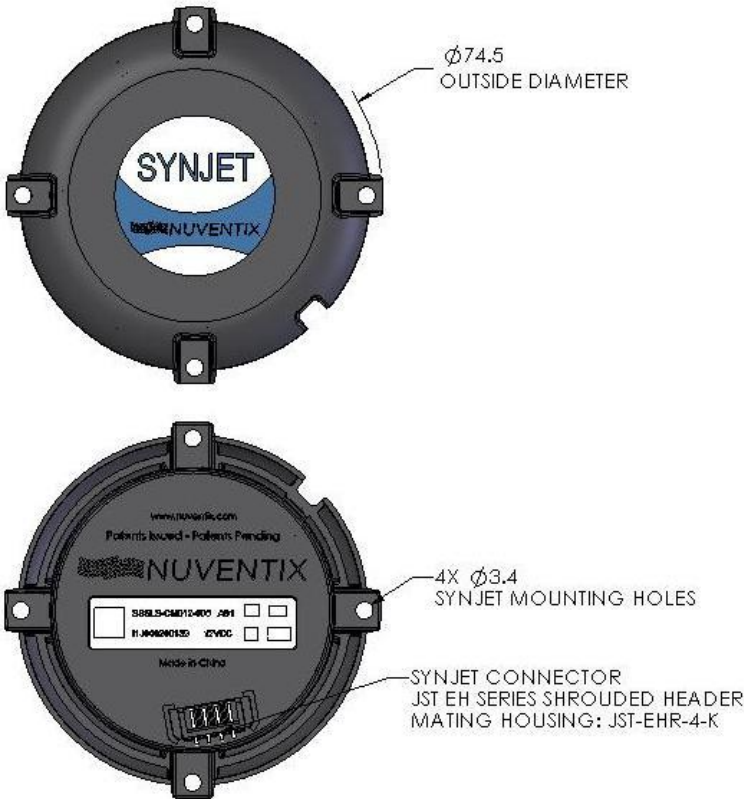
⁴ Thermal Design Power is based on a 30°C temperature rise of heat sink mounting surface above ambient temperature around cooler.

⁵ Sound Pressure Level is measured at 1 meter distance per ISO 7779.

⁶ The SynJet has a time varying current. The current waveform is sinusoidal and the average current (Iavg) is used to calculate the average power consumption (Pavg) at nominal input voltage (VDC). See the Electrical section in the Product Design Guide for a detailed explanation.

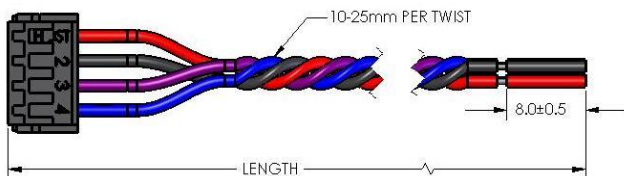
PRODUCT DATASHEET

Mechanical SynJet Cooling Solution



All dimensions are nominal and in mm unless otherwise stated. See product drawings for more detail.

SynJet Wire Harness



Connector Pinout

Pin	Wire Color	Symbol	Description
1	Red	+VDC	5 V or 12 V depending on model
2	Black	GND	Ground
3	Purple	CTRL2	Input for Level Select model Status signal for PWM model
4	Blue	CTRL1	Input for Level Select model PWM input for PWM model

Part Numbers

Part Number	Description	Notes
SSLCS-CM005-001	SynJet, ZFlow 75, PWM, 5V, Black	Configurable to discrete performance settings
SSLCS-CM005-002	SynJet, ZFlow 75, Level Select, 5V, Black	Use with PWM input to control performance setting
SSLCS-CM012-001	SynJet, ZFlow 75, PWM, 12V, Black	Configurable to discrete performance settings
SSLCS-CM012-002	SynJet, ZFlow 75, Level Select, 12V, Black	Use with PWM input to control performance setting
WALLS-C4150-001	Wire Harness, 4-Wire, 150 mm Length	Contact sales for other wire harness options
WALLS-C4600-001	Wire Harness, 4-Wire, 600 mm Length	Contact sales for other wire harness options

Nuventix reserves the right to make changes to the products or information contained herein without notice. No liability is assumed as a result of their use or applications. For additional information, please contact Nuventix directly.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Heat Sinks - LED category](#):

Click to view products by [Nuventix manufacturer](#):

Other Similar products are found below :

[LMH020-HS00-0000-0000002](#) [LRS180150CB](#) [LRS200100TW](#) [LRS200100TWK](#) [LRS285200TW](#) [684S4ST2](#) [LM310-003A99DN](#) [LMH020-HS00-0000-0000081](#) [LRS180150CBK](#) [LRS285200TWK](#) [098011G](#) [ATS-58000-C1-R0](#) [ATS-58001-C1-R0](#) [ATS-58002-C1-R0](#) [ATS-58003-C2-R0](#) [ATSEU-077A2-C1-R1](#) [ATSEU-077A2-C2-R0](#) [ATSEU-077A2-C5-R0](#) [ATSEU-077A-C3-R0](#) [ATSEU-077A-C4-R0](#) [ATSEU-077A-C6-R0](#) [ATSEU-077B-C1-R0](#) [ATSEU-077B-C2-R0](#) [ATSEU-077B-C3-R0](#) [ATSEU-077B-C4-R0](#) [ATSEU-077B-C5-R0](#) [ATSEU-077B-C6-R0](#) [ATSEU-077C-C1-R0](#) [ATSEU-077C-C2-R0](#) [ATSEU-077C-C3-R0](#) [ATSEU-077C-C4-R0](#) [ATSEU-077C-C5-R0](#) [ATSEU-077C-C6-R0](#) [ATSEU-077D-C1-R0](#) [ATSEU-077D-C2-R0](#) [ATSEU-077D-C3-R0](#) [ATSEU-077D-C4-R0](#) [ATSEU-077D-C5-R0](#) [ATSEU-077D-C6-R0](#) [ATSEU-109-C1-R0](#) [ATSEU-109-C2-R0](#) [ATSEU-110-C1-R0](#) [ATSEU-110-C2-R0](#) [LMH020-HS00-0000-0000001](#) [LMH020-HS00-0000-0000061](#) [LMR020-HS02-0000-0000001](#) [PG1W-12-60-L3BN](#) [45-4586](#) [180289-0000](#) [HSSLS-CALCL-008](#)