

SynJet[®] Universal 120 DLM Cooler with Heat Sink for Philips Fortimo LED DLM

Features/Benefits

- Perfect for 120mm diameter downlight applications
 - Retail and Commercial, General Lighting
- Less than 60mm in total height
- Enables 2000 lumens in small profile
- Silent Operation
- 100K Hours Lifetime
- Energy Efficient



Overview

SynJet Fanless Air Cooling technology provides the most reliable active cooling solution available today. The SSSLS-CM012-xxx family coolers are SynJet cooling modules developed by Nuventix, Inc. for cooling a Philips Fortimo LED down light module.

Specifications

Parameter	Max Os-a ¹²³	Max SPL (dBA) ⁴	Max TDP ⁵ (W)	Max Power W (12V) ⁶
SynJet Universal DLM Cooler, Variable Control	0.75-1.06	19-30	15-40	0-2.0
SynJet Universal DLM Cooler, High Performance	0.75	30	40	2.0
SynJet Universal DLM Cooler, Standard	0.94	22	32	1.2
SynJet Universal DLM Cooler, Silent	1.06	19	28	1.1
SynJet Universal 120 Heat Sink Passive	2.00	NA	15	NA

Parameter – All Modules	Min	Typ	Max	Units	Conditions
Voltage	10.8		13.2	VDC	150mV max ripple p-p;
Power Lead					Power (Red wire) Ground (Black wire)
Operating Temperature	0		50	°C	
Storage Temperature	-40		85	°C	
Storage Altitude			15K	m	Above Sea Level
Relative Humidity (operating)	5		95	%	Non-condensing
Weight			490	gr	Without Philips Fortimo LED DLM; 365-HS, 125-SynJet
Agency Certifications					CE, UL , RoHS
Reliability ⁷			100K	hrs	L10 @ 50°C

¹ In fully open air or well vented fixtures from 25C to 50C in full on condition. Thermal data is given as a reference only. Actual performance may vary by application.

² Thermal resistance is measured from the bottom middle of the heat sink, with a heat source at least 15cm², to ambient air measured at the inlet to the SynJet.

³ SynJet Cooler is suitable for enclosed fixtures, but thermal performance will vary depending on the enclosure.

⁴ Per ISO 7779

⁵ Total Dissipated Power based on a 30°C delta in temperature.

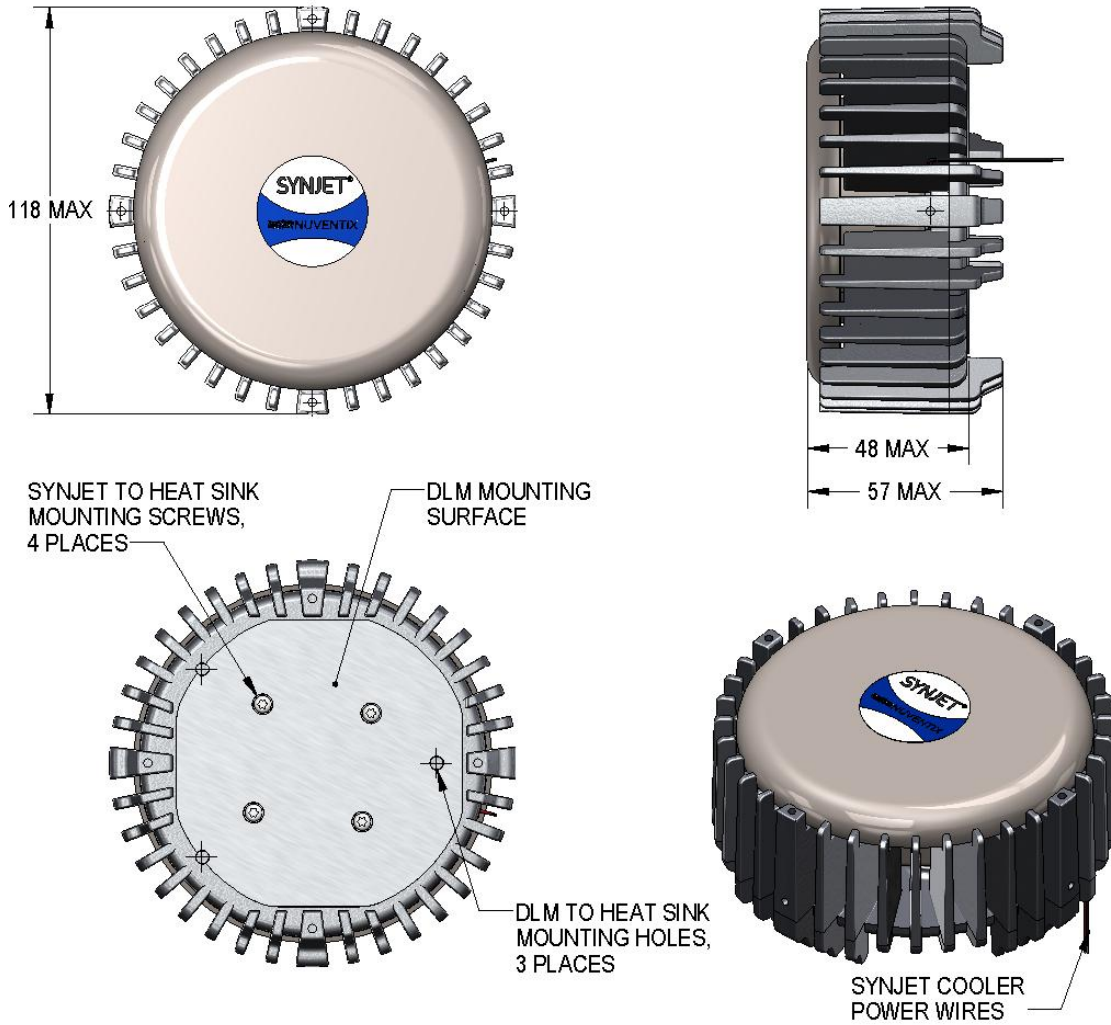
⁶ See Nuventix Design Guide for detailed power requirements.

⁷ L10 is the life for which 90% of a group of modules will meet or exceed the specification.

PRODUCT

Mechanical drawing

Universal 120 DLM Cooler



All dimensions in mm.

Part Numbers

Universal 120 DLM Cooler for Fortimo LED DLM	Document revision: 0.8
SSSLS-CM012-007	SynJet Universal DLM Cooler, High Performance, 240mm wires
SSSLS-CM012-006	SynJet Universal DLM Cooler, Standard, 240mm wires
SSSLS-CM012-004	SynJet Universal DLM Cooler, Silent, 240mm wires
SSSLS-CM012-011	SynJet Universal, DLM Cooler, Variable Control, 600mm wires
SSSLS-CM012-010	SynJet Universal, DLM Cooler, High Performance, 600mm wires
SSSLS-CM012-008	SynJet Universal, DLM Cooler, Standard, 600mm wires
SSSLS-CM012-009	SynJet Universal, DLM Cooler, Silent, 600mm wires
HSSLS-CALBL-005	SynJet Universal 120, Heatsink, Rectangular (Lexel) LED DLM Cooler
HSSLS-CALBL-004	SynJet Universal 120, Heatsink, Square Fortimo LED DLM Cooler

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.