

SynJet® XFlow 42 Outdoor Cooler

SynJet cooling provides the most reliable thermal management solution available. This cooler has been developed by Aavid for cooling high power outdoor and industrial electronics.

- Outdoor Rated¹
- L10 of 100K Hours at 60°C
- **Energy Efficient**

- 5 Yr Warranty
- Rugged
- **IP 56**



Specifications²

Thermal & Acoustic

SynJet Setting ³	SPL (dBA) ⁴	Wire Connections		
High Performance	27	Red to +VDC Black & Blue to Ground	+VDC GND	
Standard Performance	22	Red to +VDC Black only to Ground	+VDC GND	
Silent Performance	18	Red to +VDC Black & Purple to Ground	+VDC GND	
PWM at 100% duty cycle	27	Red to +VDC Black only to Ground Blue to PWM Signal	+VDC GND PWM	

Electrical

2	Voltag	Current (mA) ⁵				Voltag	Current (mA) ⁶			
SynJet Setting ²	e (VDC)	Imin	lavg	lpeak	Pavg (W)	e (VDC)	lmin	lavg	Ipeak	Pavg (W)
Mid	5	20	180	360	0.90	12	10	92	184	1.10
Standard			80	160	0.40			46	92	0.55
Silent			60	120	0.30			33	66	0.40
PWM at 100% duty cycle			220	440	1.10			115	230	1.38

Environmental

All Settings	Min	Max	Units	Conditions
Operating Temperature	-40	70	°C	Air temperature surrounding cooler
Storage Temperature	-50	85	°C	Air temperature surrounding cooler
Storage Altitude		15K	m	Above sea level
Operating Relative Humidity	5	95	%	Non-condensing
Weight		100	g	SynJet Only
Reliability		100K	hrs	L10 @ 60°C
Regulatory Compliance				RoHS, UL, FCC Part 15 Class B, CE

⁵ The SynJet has a time varying current. The current waveform is sinusoidal and the average current (lavg) is used to calculate the average power consumption



Revision

¹SynJet design guidelines for outdoor use must be followed to meet rated lifetime specifications.

² All values are typical at 25°C unless otherwise stated.
³ The Level Select model should be used for discrete performance settings. Follow the instructions in the Product Design Guide for adjusting settings.

⁴ Sound Pressure Level is measured at 1 meter distance per ISO 7779.



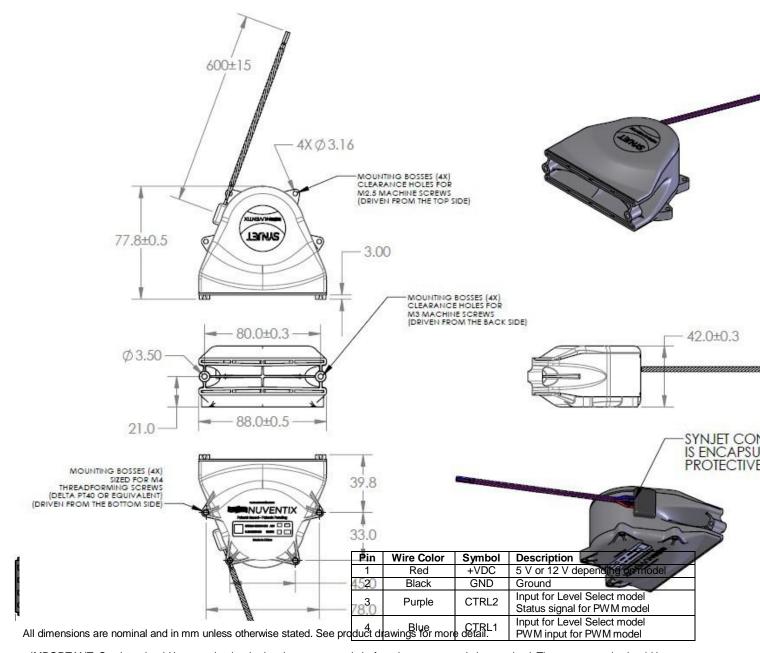


 $(Pavg) \ at \ nominal \ input \ voltage \ (VDC). \ See \ the \ Electrical \ section \ in \ the \ Product \ Design \ Guide \ for \ a \ detailed \ explanation.$





Mechanical - SynJet Cooling Solution



IMPORTANT: SynJets should be completely wired to the power supply before the power supply is energized. The power supply should be turned off before the SynJet Cooler is disconnected. SynJet Coolers are not designed for "hot swap" or "hot plug" applications.

Part Numbers

Part Number	Description	Notes
NX202104	SynJet, XFlow 42, Outdoor, PWM, 5V, 600mm Wire Harness	Use with PWM input to control performance setting
NX202105	SynJet, XFlow 42, Outdoor, Level Select, 5V, 600mm Wire Harness	Configurable to discrete performance settings
NX202106	SynJet, XFlow 42, Outdoor, PWM, 12V, 600mm Wire Harness	Use with PWM input to control performance setting
NX202107	SynJet, XFlow 42, Outdoor, Level Select, 12V, 600mm Wire Harness	Configurable to discrete performance settings

Aavid 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 Aavid directly.



1 Aavid Circle Laconia, NH 03246 Phone: 1.855.322.2843 www.aavid.com MKTG-DOC-00174

A05

Revision

March 2018