

FrigoDynamics® OC HPK-Fin™ 250 Hybrid Heat Exchanger for CoB LEDs ≤ 65W³



The OC HPK-Fin™ solution is a 2-phase heat exchanger allowing high levels of power dissipation with zero power consumption. It has a particularly low profile horizontally which enables it to fit in areas with restricted space in vertical. Typical applications for this form factor are recessed down lights.

- Passive, no CO₂ emissions
- Light weight
- Slim horizontal profile
- Zero noise levels
- No operating cost
- No lifetime issues
- Easy installation



Please Note:
Registered German
Utility Model
DBGM protected
PCT Patent Application

Specifications

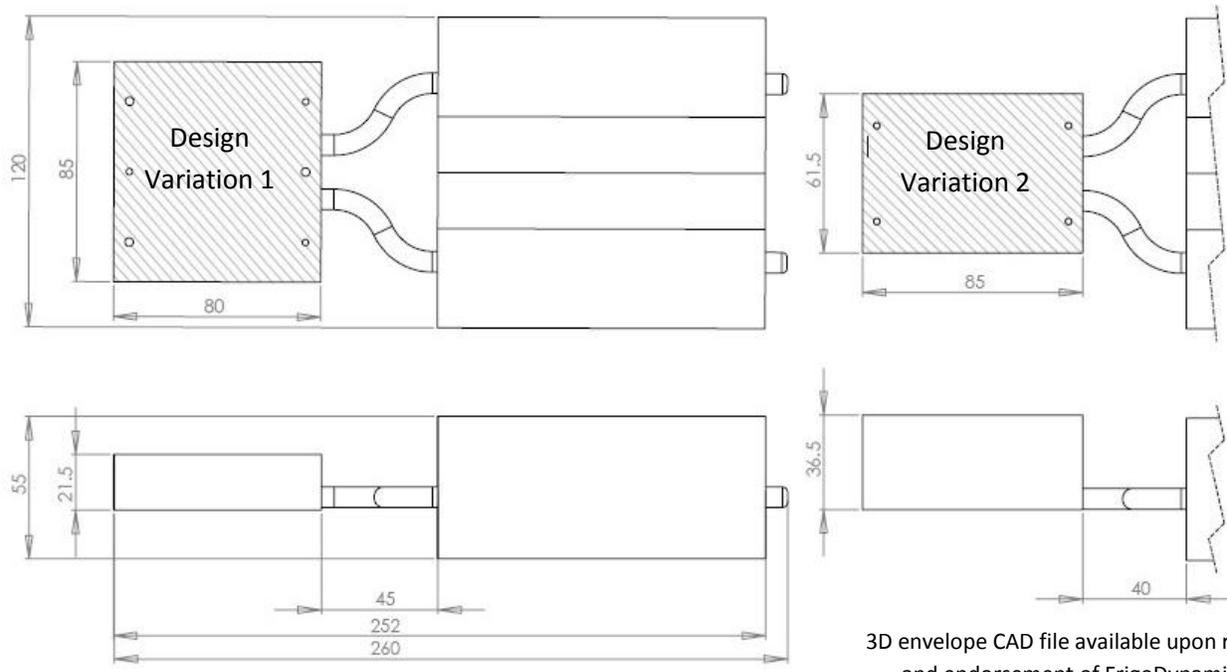
	Value	Conditions
Thermal Resistance (Tc)	0.95 °C/W ^{1,2}	Measured between LED Tc - ambient
Thermal Resistance (Hs)	0.85 °C/W ¹	Measured between LED mounting base and ambient
Design power	65W ³	Electrical Load
Storage Temperature	-40°C to 100°C	Air temperature surrounding the unit
Surface finish	Black	Anodized
Weight	360g & 350g	Complete unit: variation 1 & variation 2
Regulatory Compliance	RoHS	No further compliance necessary for passive devices

¹ Thermal resistance is measured in free air without airflow obstructions and in a horizontal orientation.

² This value is impacted by the thermal interface material used, especially with smaller heat sources.

³ Design power is based on 50 °C temperature difference (ΔT) between maximum Tc point on LED module to ambient temperature.

Dimensions (~mm)



3D envelope CAD file available upon request and endorsement of FrigoDynamics NDA

Product Guide

Part Number	Description	Specifics
OC 0800 HPK01-250AN	Blank Surface	Variation 1
OC 0500 HPK01-250AN	Blank Surface	Variation 2
OC 0801 HPK01-250AN	Philips/Tridonic® pattern	Variation 1 for Fortimo DLM/ STARK DLE
OC 0502 HPK01-250AN	Xicato pattern	Variation 2 for XLM™
OC 0503 HPK01-250AN	Bridgelux® pattern	Variation 2 for all BXRA, VERO™ 13, 18, 29
OC 0505 HPK01-250AN	Zhaga (Osram/Philips/Tridonic/VS)	Variation 2 for Soleriq/SLM/SLE/WU-M
OC 0506 HPK01-250AN	Xicato® pattern	Variation 2 for XSM™
OC 0508 HPK01-250AN	Citizen® pattern	Variation 2 for CLL032, CLL042, CLL052

Please [contact](#) us, should you have specific requirements not covered in this data sheet.

Disclaimer

Information given by FrigoDynamics® is believed to be accurate and reliable. However, since every potential application and the environment our solutions operate in cannot be anticipated, FrigoDynamics® does not guarantee suitability in all circumstances. Thermal performance may vary depending on the enclosure, the operating orientation and natural airflow. FrigoDynamics® shall not be liable for incidental or consequential damages of any kind.