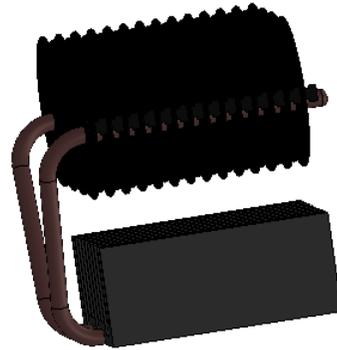


FrigoDynamics® TC HPK-Fin™ 110 Hybrid Heat Exchanger for CoB LEDs ≤ 50W³



The TC HPK-Fin™ solution is a 2-phase heat exchanger allowing high levels of power dissipation with zero power consumption. This design trades the low profile of the OC version for a shorter length. Ideal for recessed downlights with constrained space in horizontal direction.

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



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

Specifications

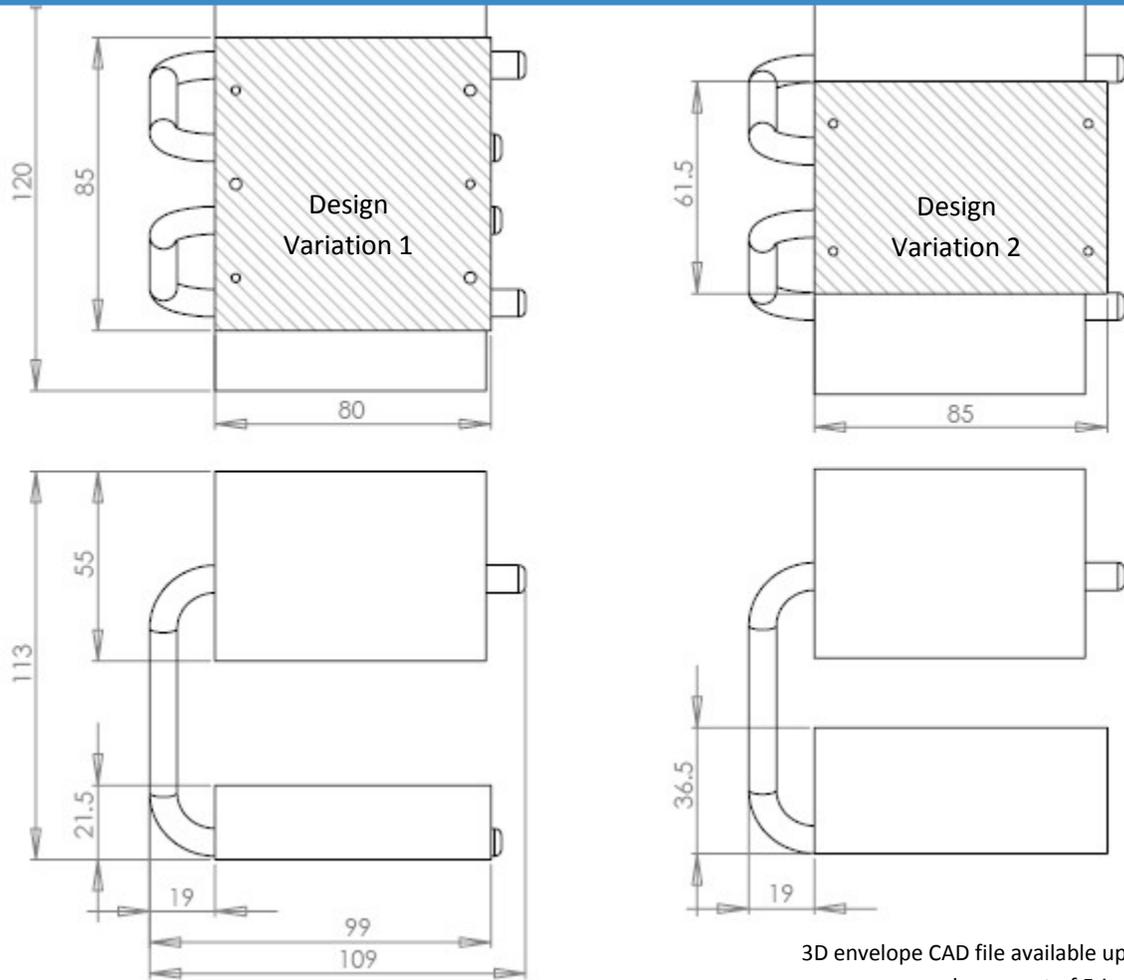
	Value	Conditions
Thermal Resistance (Tc)	1.15 °C/W ^{1,2}	Measured between LED Tc - ambient
Thermal Resistance (Hs)	0.95 °C/W ¹	Measured between LED mounting base and ambient
Design power	50W ³	Electrical Load
Storage Temperature	-40°C to 100°C	Air temperature surrounding the unit
Surface finish	Black	Anodized
Weight	310g & 300g	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
TC 0800 HPK01-110AN	Blank Surface	Variation 1
TC 0500 HPK01-110AN	Blank Surface	Variation 2
TC 0801 HPK01-110AN	Philips/Tridonic® mounting pattern	Variation 1 for Fortimo DLM/ STARK DLE
TC 0502 HPK01-110AN	Xicato mounting pattern	Variation 2 for XLM™
TC 0503 HPK01-110AN	Bridgelux® mounting pattern	Variation 2 for all BXRA, VERO™ 13, 18, 29
TC 0505 HPK01-110AN	Philips/VS/Osram/Tridonic pattern	Variation 2 for Soleriq/SLM/SLE/WU-M
TC 0506 HPK01-110AN	Xicato® mounting pattern	Variation 2 for XSM™
TC 0508 HPK01-110AN	Citizen® mounting pattern	Variation 2 for CLL032, CLL042, CLL052

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

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.