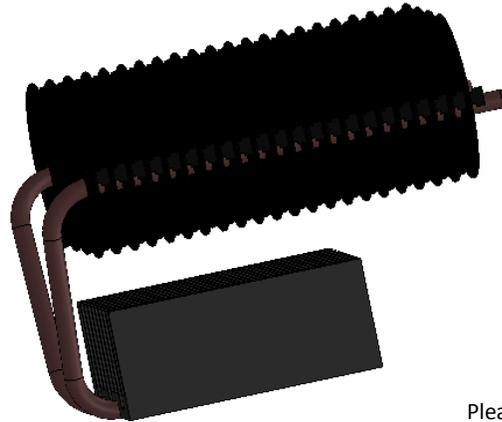


# FrigoDynamics® TC HPK-Fin™ 160 Hybrid Heat Exchanger for CoB LEDs ≤ 65W<sup>3</sup>



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 CO<sub>2</sub> 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

## Specifications

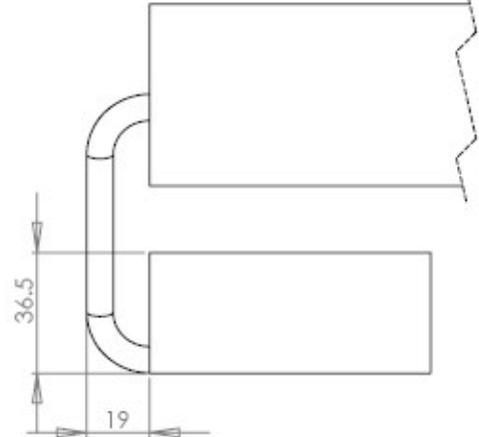
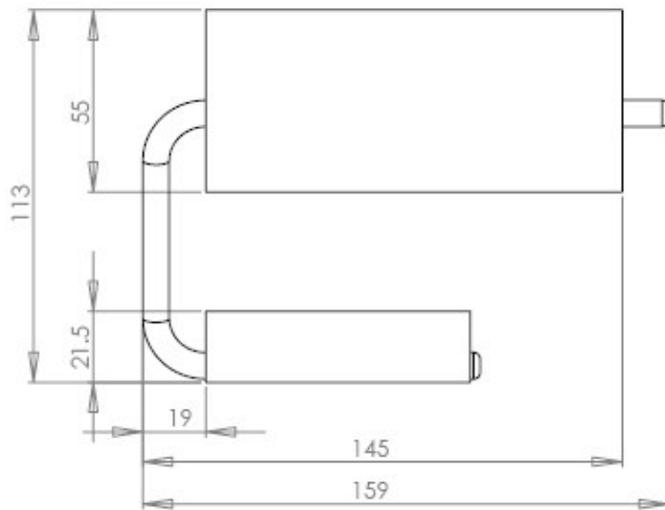
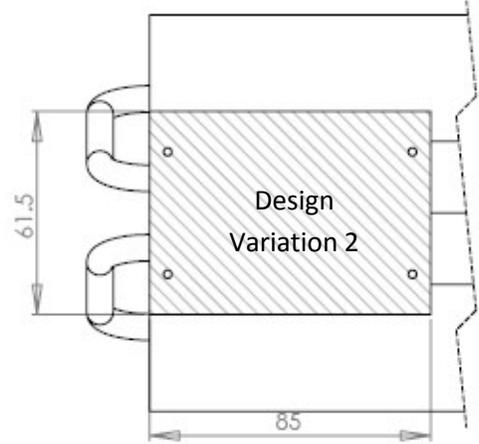
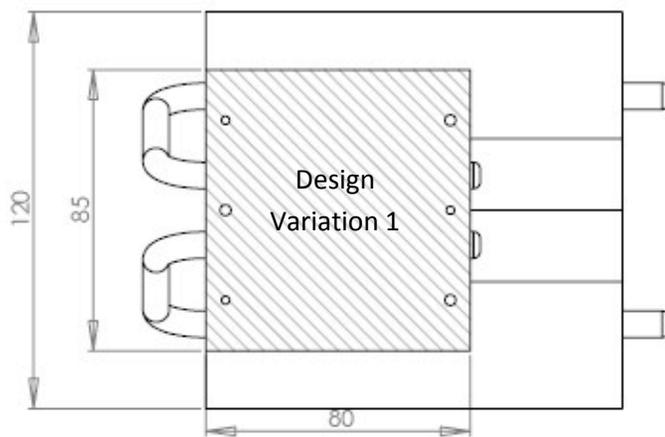
	Value	Conditions
<b>Thermal Resistance (Tc)</b>	0.95 °C/W <sup>1,2</sup>	Measured between LED Tc - ambient
<b>Thermal Resistance (Hs)</b>	0.85 °C/W <sup>1</sup>	Measured between LED mounting base and ambient
<b>Design power</b>	65W <sup>3</sup>	Electrical Load
<b>Storage Temperature</b>	-40°C to 100°C	Air temperature surrounding the unit
<b>Surface finish</b>	Black	Anodized
<b>Weight</b>	350g & 340g	Complete unit: variation 1 & variation 2
<b>Regulatory Compliance</b>	RoHS	No further compliance necessary for passive devices

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

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

<sup>3</sup> 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
<b>TC 0800</b> HPK01-160AN	Blank Surface	Variation 1
<b>TC 0500</b> HPK01-160AN	Blank Surface	Variation 2
<b>TC 0801</b> HPK01-160AN	Philips/Tridonic® mounting pattern	Variation 1 for Fortimo DLM/ STARK DLE
<b>TC 0502</b> HPK01-160AN	Xicato mounting pattern	Variation 2 for XLM™
<b>TC 0503</b> HPK01-160AN	Bridgelux® mounting pattern	Variation 2 for all BXRA, VERO™ 13, 18, 29
<b>TC 0505</b> HPK01-160AN	Philips/VS/Osram/Tridonic pattern	Variation 2 for Soleriq/SLM/SLE/WU-M
<b>TC 0506</b> HPK01-160AN	Xicato® mounting pattern	Variation 2 for XSM™
<b>TC 0508</b> HPK01-160AN	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.