FrigoDynamics® LC **HPK-Fin™ 310** Hybrid

Heat Exchanger for CoB LEDs ≤ 80W [3]

The LC HPK-Fin™ cooler 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 CO_2 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)	0.75 °C/W [1, 2]	Measured between LED Tc - ambient
Thermal Resistance (Hs)	0.55 °C/W [1]	Measured between LED mounting base and ambient
Design power	80W [3]	Electrical Load
Storage Temperature	-40°C to 100°C	Air temperature surrounding the unit
Surface finish	Black	Anodized
Weight	425g	Complete unit (excluding LED Light Engine)
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.

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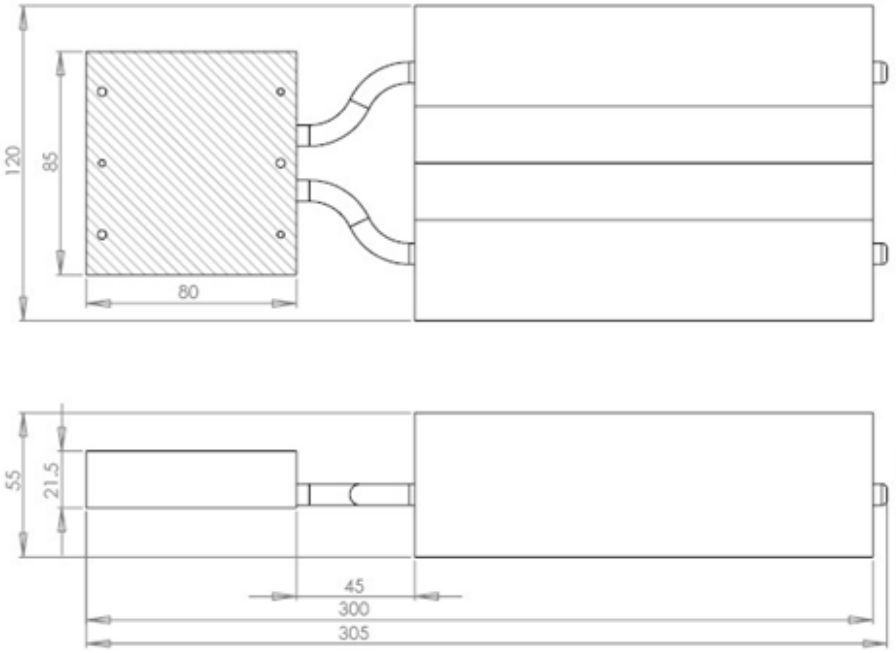
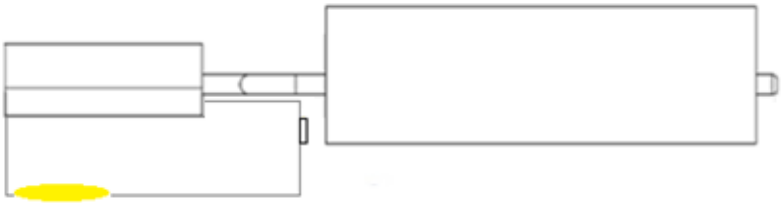
Dimensions (~mm)



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

Product Guide

Part Number	Description	Specifics
LC 0800 HPK01-310AN	Blank Surface	
LC 0801 HPK01-310AN	Philips Fortimo DLM mounting holes	Accomodates DLM and Lexel form factor



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 products 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.

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