FrigoDynamics® **SC HPK-Fin™ 180** Hybrid

Heat Exchanger for CoB LEDs ≤ 80W [3]

The SC HPK-Fin™ solution is a Hybrid heat exchanger allowing high levels of power dissipation with zero power consumption. The unit has a unique, patented design utilizing the chimney effect thus maximizing performance. Ideal for track/spot light and high-bay installations.

- Passive, no CO_2 emissions
- Light weight
- Compact
- Zero noise levels
- No lifetime issues
- No operating cost
- Works in any orientation
- Easy installation

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

Specifications

	Value	Conditions
Thermal Resistance (Tc)	0.85 °C/W [1, 2]	Measured between LED Tc/Ts - ambient
Thermal Resistance (Hs)	0.75 °C/W [1]	Measured between LED mounting base and ambient
Design power	80W [3]	Electrical Load (assuming 72% Pth)
Storage Temperature	-40°C to 100°C	Air temperature surrounding the unit
Surface finish	Black	Anodized
Weight	310g	Complete unit
Regulatory Compliance	RoHS	No further compliance necessary for passive devices

[1] Thermal resistance is measured in free air without airflow obstructions and in a vertical 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 (Ts) on LED module to ambient temperature.

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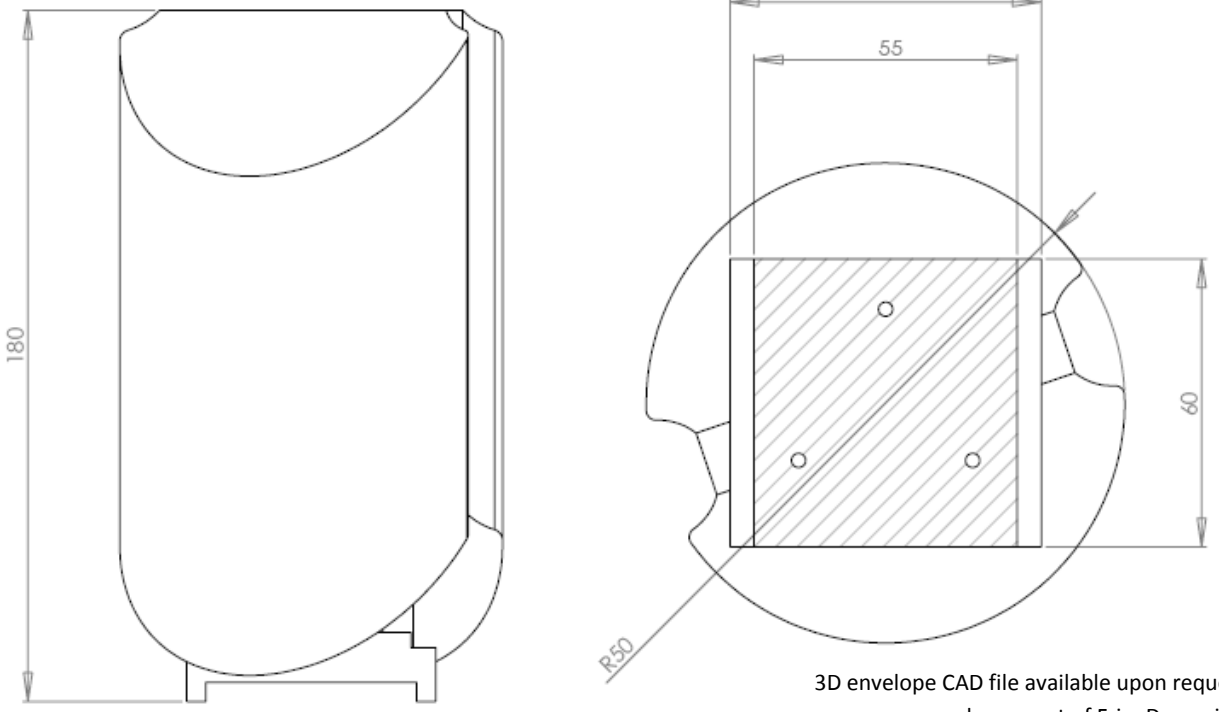
Dimensions (mm)



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

Product Guide

Part Number	Description	Specifics
SC 1100 HPK02-180AN	Blank Surface	no mounting holes
SC 1103 HPK02-180AN	Bridgelux® mounting holes, Zhaga pattern	for BXRA, VERO™ 13, 18, 29
SC 1104 HPK02-180AN	Zhaga pattern	for Luxeon CoB, WU-M Spot, Soleric
SC 1106 HPK02-180AN	Xicato mounting holes	for XSM
SC 1107 HPK02-180AN	Citizen mounting holes	for CLL032, CLL042, CLL052
SC 1109 HPK02-180AN	Tridonic mounting holes	Spot P3xx

Please contact us, should you have specific requirements not covered in this data sheet.

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