

FrigoDynamics® VC HPK-Fin™ 210 Cooler

For LEDs $\leq 50W$



The VC HPK-Fin™ cooler is a 2-phase heat exchanger allowing high levels of power dissipation with zero power consumption. The cooler is designed as narrow as possible allowing it to fit applications where narrow fixtures are preferred.

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



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

Specifications

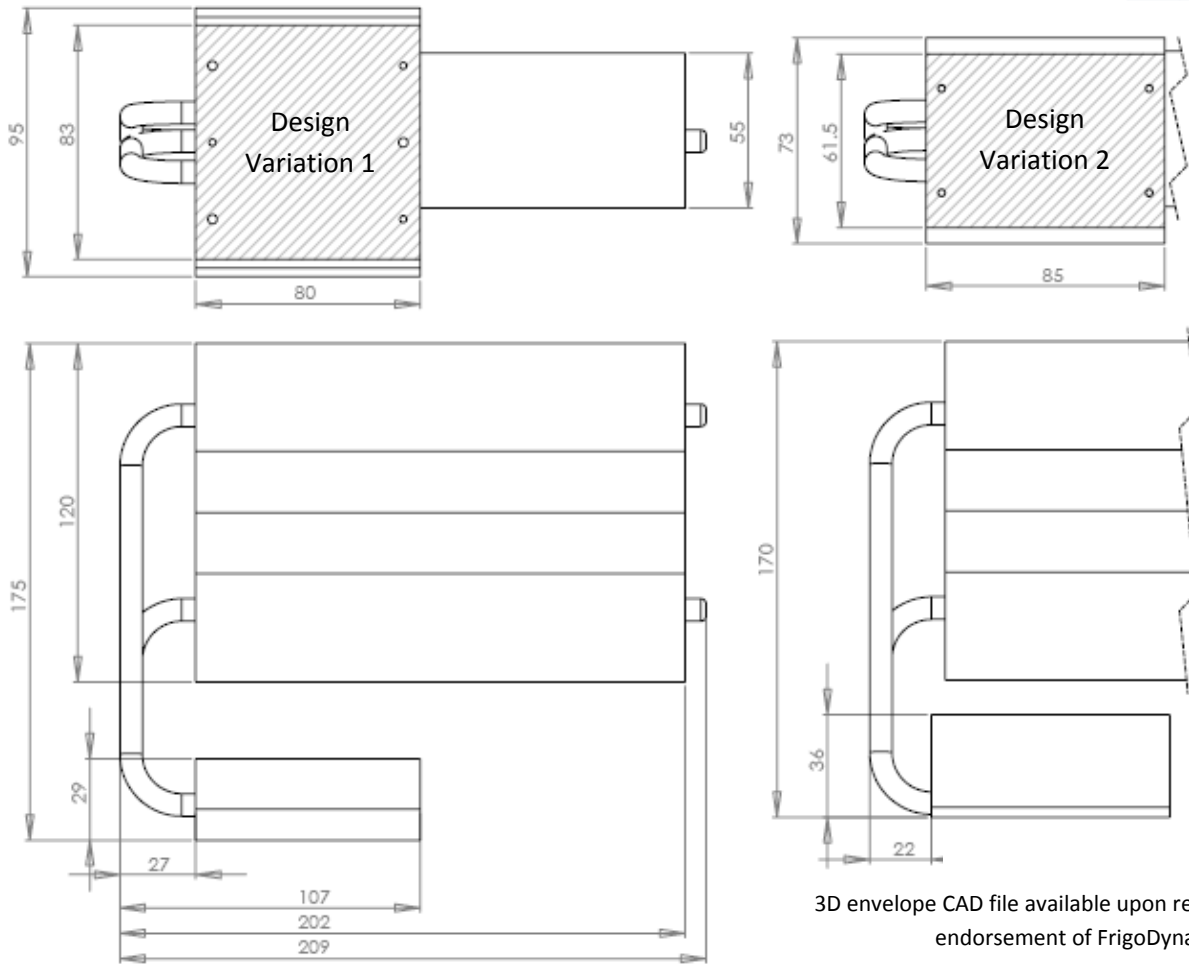
	Value	Conditions
Thermal Resistance (Tc)	0.75 °C/W ^{1, 2}	Measured between LED Tc - ambient
Thermal Resistance (Hs)	0.55 °C/W ¹	Measured between heat sink base - ambient
Design power	50W ³	Electrical Load
Storage Temperature	-40°C to 100°C	Air temperature surrounding cooler
Surface finish	Black	Anodized
Weight	430g & 445g	Complete cooler: 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 30 °C temperature difference 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
VC 0200 HPK01-210AN	Blank Surface	Design variation 1
VC 0300 HPK01-210AN	Blank Surface	Design variation 2
VC 0201 HPK01-210AN	With Fortimo/Lixel™ mounting holes	Design variation 1 for Fortimo/Lixel™
VC 0302 HPK01-210AN	With Xicato mounting holes	Design variation 2 for XLM/XSM™
VC 0303 HPK01-210AN	With Bridgelux® mounting holes	Design variation 2 for all BXRA
VC 0304 HPK01-210AN	With OSRAM/Philips mounting holes	Design variation 2 for PrevaLED®/SLM

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 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.