

The Passive Revolution

FrigoDynamics® Passive 2-Phase HX Solutions
for Xicato XSM/XLM™ LED Light Engines



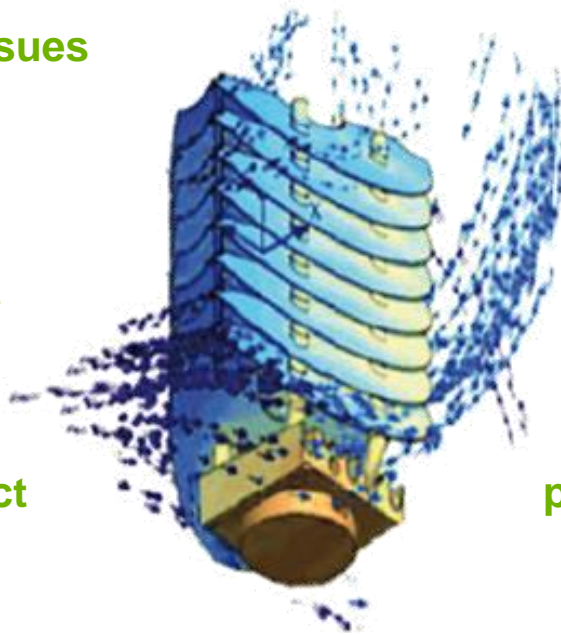
zero noise level

no lifetime issues

no CO₂ emission

cools all
lumen values

lighter than other
passive solutions



compact

performs in any
orientation

passive convection
natural airflow


XICATO
Making sense with LEDs

 **FrigoDynamics®**
thermal solutions

FrigoDynamics GmbH
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FrigoDynamics® Passive 2-Phase HX Solutions for Xicato XSM™ LED Light Engines



Der SC 2-Phasen Wärmetauscher

besteht durch ein besonderes, patentiertes Design, nützt den Kamineffekt aus und maximiert dadurch die Kühlleistung. Die kompakte Auslegung ist ideal für Track/Spot Light Applikationen.

Die Lösung arbeitet in alle Richtungen.

The SC 2-Phase HX

has a unique, patented design utilizing the chimney effect, thus maximizing cooling performance. The compact shape allows it to fit in typical cylindrical track/spot light type applications. Performs in any orientation.

Échangeur de chaleur pour le 2-phase SC

une conception spéciale, brevetée, bénéficieront de l'effet de cheminée et cela maximise la performance de refroidissement. Le design compact est idéal pour les applications légères de piste/spot.

La solution fonctionne dans toutes les directions.

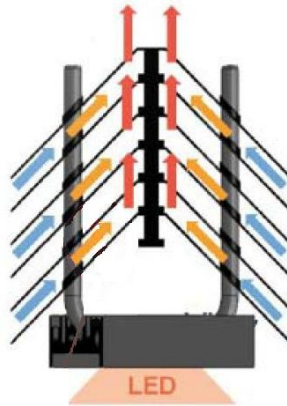
El SC Intercambiador de calor por cambio de fase

tiene un diseño único y patentado utilizando el efecto chimenea, lo que maximiza la refrigeración de rendimiento. La forma compacta permite encajar en pista/spot cilíndrica en aplicaciones típicas de luminarias. Funciona en cualquier dirección.

Lo scambiatore di calore SC 2 fasi

un design speciale, brevettato, potranno beneficiare l'effetto camino e questo massimizza le prestazioni di raffreddamento. Il design compatto è ideale per applicazioni leggera traccia/spot.

La soluzione funziona in tutte le direzioni.



LED



XSM 80



~220g



~260g



The only high power cooling solution that really works much longer than the product it cools.

FrigoDynamics® thermal solutions		2-Phase HX	SC HPK-Fin™ 110			SC HPK-Fin™ 150		
		Dimensions	Ø100 H ~110			Ø100 H ~150		
T _c < 75°C	T _c < 90°C	T _{ambient}	25°C	35°C	40°C	25°C	35°C	40°C
XSM 1500lm - 24.9W		Class J						
XSM 2000lm - 36.3W		Class M						
XSM 2250lm - 28.5W		Class K						
XSM 3000lm - 43.1W		Class Q						

Please [contact](#) us, should you have special requirements you do not see covered here.

"HPK-Fin" is a registered Trademark of HPK innovative solutions
 Produkt entspricht den Vorschriften gemäß EU-Richtlinie 2002/95/EG
 Product complies with EU Directive 2002/95/EC
 Producto cumple con los requisitos establecidos en la Directiva 2002/95/CE



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Der OC 2-Phase Wärmetauscher

überzeugt durch sein flaches, patentiertes Design und eignet sich dadurch besonders für den Einsatz in abgehängten Decken, wenn der Einbauraum in der Vertikalen limitiert ist.

The OC 2-Phase HX

the patented design gives it a low profile ideal for fitting in spaces that have limited height available. The shape allows it to fit in typical recess downlight type applications.

L'échangeur de chaleur de la phase 2 OC

avec ses plats, brevetés design et est donc idéal pour une utilisation dans les plafonds suspendus, si peu d'espace de l'installation à la verticale.

El OC Intercambiador de calor por cambio de fase

El diseño patentado da un bajo perfil ideal para encajar en espacios que tienen altura limitada, por tanto es ideal para su uso en los falsos techos para los downlight.

Lo scambiatore di calore OC 2 fasi

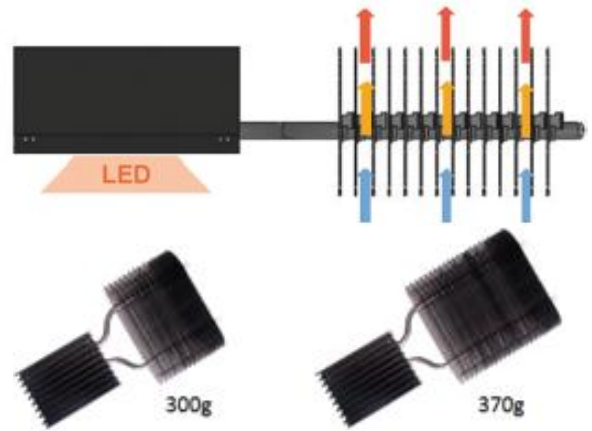
con il suo piatto, design brevettato ed è quindi ideale per l'uso in soffitti sospesi, se limitato lo spazio di installazione in verticale



XLM



XSM 80



The only high power cooling solution that really works much longer than the product it cools.

FrigoDynamics® thermal solutions		2-Phase HX	OC HPK-Fin™ 210			OC HPK-Fin™ 250		
			H55 x W120 x L210			H55 x W120 x L250		
Tc < 75°C	Tc < 90°C	Dimensions	25°C	35°C	40°C	25°C	35°C	40°C
XSM 1500lm - 24.9W		Class J						
XSM 2000lm - 36.3W		Class M						
XSM 2250lm - 28.5W		Class K						
XSM 3000lm - 43.1W		Class Q						
XLM 1700lm - 19.6W		Class G						
XLM 2250lm - 28.2W		Class J						
XLM 3000lm - 41.6W		Class N						
XLM 4000lm - 59.5W		Class T						

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