

# The Passive Revolution

FrigoDynamics® Passive 2-Phase HX Solutions  
for Sharp Mega Zenigata Light Engines



zero noise level

no lifetime issues

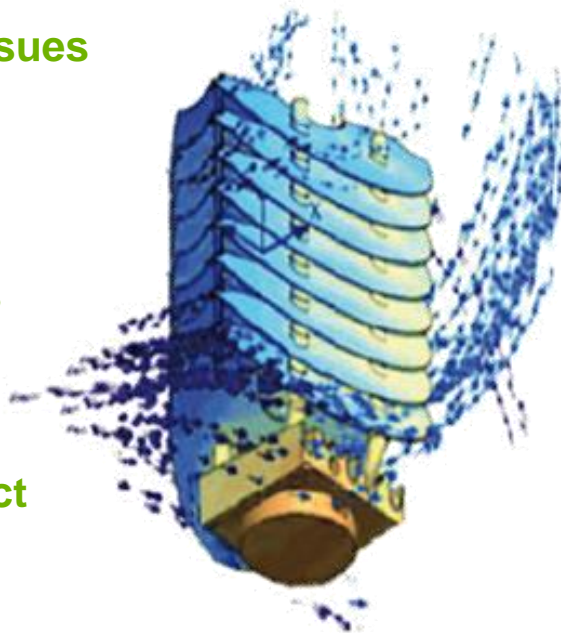
no CO<sub>2</sub> emission

cools all  
lumen values

lighter than other  
passive solutions

compact

works in all  
orientations



passive convection  
natural airflow

# SHARP

# FrigoDynamics® Passive 2-Phase HX Solutions for Sharp Mega Zenigata 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. Works in any direction.

## 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.

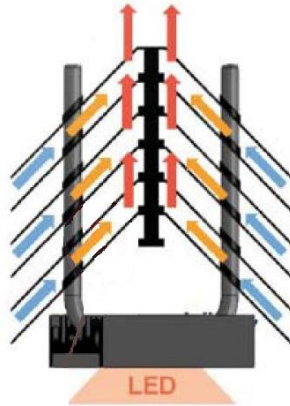
## El SC Intercambiador de calor por cambio de fase

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.



# SHARP



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			SC HPK-Fin™ 180			SC HPK-Fin™ 230		
			Dimensions			Ø100 H ~110			Ø100 H ~150			Ø100 H ~180		
Tc < 70°C	Tc < 85°C	Tambient	25°C	35°C	40°C	25°C	35°C	40°C	25°C	35°C	40°C	25°C	35°C	40°C
			Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
			Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
			Green	Green	Yellow	Green	Green	Green	Green	Green	Green	Green	Green	Green
			Yellow	Yellow	Red	Green	Yellow	Yellow	Green	Green	Green	Green	Green	Green
			Yellow	Red	Red	Yellow	Yellow	Red	Green	Green	Green	Green	Green	Green
			Red	Red	Red	Red	Red	Red	Yellow	Yellow	Red	Green	Yellow	Yellow

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

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 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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# FrigoDynamics® Passive 2-Phase HX Solutions for Sharp Mega Zenigata Light Engines



## Der OC/LC 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/LC 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/LC

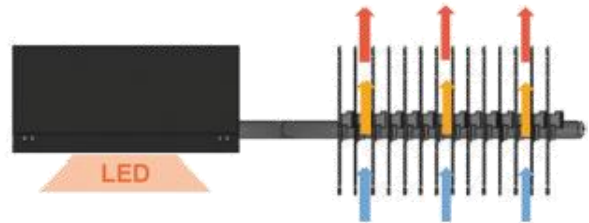
avec ses plats, brevetés design et est donc idéal pour une utilisation dans les plafonds suspendus, si peu d'espace de l'installation à la verticale.

## El OC/LC 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/LC 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



**SHARP**



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			OC HPK-Fin™ 300		
		Dimensions		H55 x W120 x L210			H55 x W120 x L250			H55 x W120 x L300		
Tc < 70°C	Tc < 85°C	Tambient	25°C	35°C	40°C	25°C	35°C	40°C	25°C	35°C	40°C	
Mega Zenigata GW5D - 15W			Green	Green	Green	Green	Green	Green	Green	Green	Green	
Mega Zenigata GW5D - 25W			Green	Green	Green	Green	Green	Green	Green	Green	Green	
Mega Zenigata GW5D - 30W			Green	Green	Green	Green	Green	Green	Green	Green	Green	
Mega Zenigata GW5D - 40W			Green	Yellow	Yellow	Green	Green	Green	Green	Green	Green	
Mega Zenigata GW5D - 50W			Yellow	Yellow	Red	Green	Green	Green	Green	Green	Green	
Mega Zenigata GW5D - 80W			Red	Red	Red	Yellow	Yellow	Red	Green	Yellow	Yellow	

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