



for

LED

*XSA-310*

**XSA-310 Modular Passive LED Cooler Ø96mm for Xicato**

### Features VS Benefits

- \* The XSA-310 Modular Passive LED Coolers are specifically designed for luminaires using the Xicato LED Modules.
- \* Mechanical compatibility with direct mounting of the LED modules to the LED cooler and thermal performance matching the lumen packages.
- \* Designs for XSM Module from 2200 to 4300 lumen.
- \* Thermal resistance range  $R_{th}$  0.92°C/W. ( XSM Thermal class Q)
- \* Modular design with mounting holes foreseen for direct mounting of Xicato XSM, XTM and XIM Modules .
- \* Diameter 96mm - standard height 80mm, Other heights on request.
- \* Extruded from highly conductive aluminum.



\*The XSA-310 Xicato modular passive LED cooler is standard foreseen from a variety of mounting holes which allow direct mounting of all.

Xicato Spot and down light LED modules and secondary optics on the LED heat sink.

\*In this way mechanical afterwork and related costs can be avoided, and lighting designers can standardize their designs on a limited number of LED coolers.

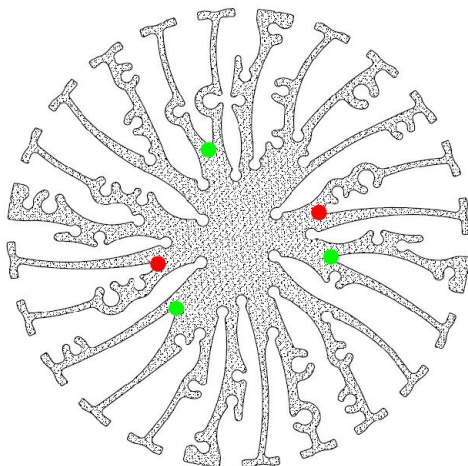
\*Below you find an overview of Xicato LED modules which standard fit on the XSA-310 Passive LED Coolers.

\*MingFa performs thermal validation tests on each of the LED modules mounted on the LED cooler and publishes.

\*This data in the Xicato Cooler thermal validation reports.

\*For a full overview of available LED coolers for Xicato LEDs, please refer to the Xicato LED cooler overview on.

# XICATO



### XSA-310 standard height 80mm for Xicato LED modules Mounting Options

#### Xicato XSM LED modules name :

XSM80xx-400 ; XSM80xx-2000 ; XSMV8xx-1300 ;  
XSM80xx-700 ; XSM80xx-3000 ; XSMV8xx-2000 ;  
XSM80xx-1000 ; XSM80xx-4000 ; XSMV8xx-3000 ;  
XSM80xx-1300 ;

Direct mounting with 3 screws M3 x 12mm;  
Green indicator marks.

#### Xicato XIM LED modules name :

XIMCV481980xx13; XIMCV4819V8xx13;  
XIMCV481995xx13; XIMCV4819V8xx20;  
XIMCV481980xx20;

Direct mounting with 3 screws M3 x 20mm;  
Green indicator marks.

#### Xicato XTM LED modules:

XTM1980xx13 ; XTM1980xx50 ; XTM19V8xx13 ; XTM19V9xx13 ;  
XTM1980xx20 ; XTM1995xx13 ; XTM19V8xx20 ; XTM19V9xx20 ;  
XTM1980xx30 ; XTM1995xx20 ; XTM19V8xx30 ; XTM19V9xx30 ;  
XTM1980xx40 ; XTM1995xx30 ;

Direct mounting with 3 screws M3 x 8mm;  
Green indicator marks.

Direct mounting by Zhaga mounting holes with 2 screws M3 x 8mm;  
Red indicator marks.

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**XSA-310**

**XSA-310 Modular Passive LED Cooler  $\Phi$ 96mm for Xicato**

## Mounting Options and Drawings & Dimensions

Example: XSA-310-B-2

Example: XSA-310 - **1** - **2**

### **1** Anodising Color

B-Black

C-Clear

Z-Custom

### **2** Mounting Options - see graphics for details Combinations available

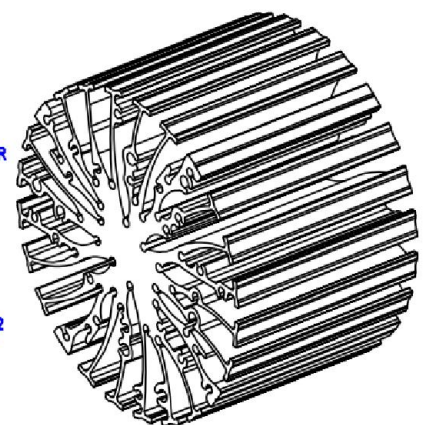
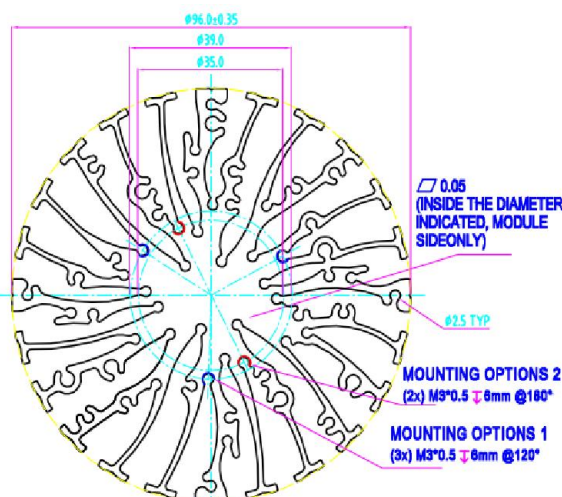
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means option 1 and 2 combined

MingFa recommends the use of a high thermal conductive interface between the LED module and the LED cooler. Either thermal grease, a thermal pad or a phase change thermal pad thickness 0.1-0.15mm is recommended.

# XICATO

MOUNTING OPTION	PART NUMBER	THREAD	THREAD DEPTH
NONE	XSA-310-#-N	NONE	NONE
1	XSA-310-#-1	M3*0.5	6mm
2	XSA-310-#-2	M3*0.5	6mm





**XSA-310**

**XSA-310 Modular Passive LED Cooler  $\Phi 96\text{mm}$  for Xicato**

**The thermal data table**

	
<b>Model No.</b>	<b>XSA-310</b>
<b>Size</b>	<b><math>\Phi 96\text{xH}80\text{mm}</math></b>
<b>Material</b>	<b>6063-T5</b>
<b>Finish</b>	<b>Black Anodized</b>
<b>Weight(gr)</b>	<b>575</b>
<b>Thermal Wattage</b>	<b>49.2W</b>
<b>Heatsink <math>\Theta_{sa}</math></b>	<b>180427</b>
<b>Thermal Resistance (<math>^{\circ}\text{C/W}</math>)<sup>2</sup></b>	<b>0.92</b>

$P_d = P_e \times (1-\eta_L)$		Heat sink to ambient thermal resistance $R_{hs-amb}$ ( $^{\circ}\text{C/W}$ )	Heat sink to ambient temperature rise $T_{hs-amb}$ ( $^{\circ}\text{C}$ )
		XSA-310	XSA-310
Dissipated Power $P_d(\text{W})$	5W	3.4	17.5
	15W	1.43	21.5
	20W	1.32	26.4
	25W	1.21	30.3
	30W	1.32	39.6
	35W	1.15	40.3
	40W	1.12	44.8
	45W	1.08	48.6
	50W	1.02	51

