



MechaTronix LED Heat Sinks with Bender+Wirth LED COB Holders Hybrid series 630 & 4xx M1, M2, 2x2MX

- Validated Thermal Designs
- Adaptable to your Needs
- Functional & Aesthetic

**BENDER
+ WIRTH**

MTX
MechaTronix

BENDER+WIRTH HOLDERS OVERVIEW

MechaTronix offers a wide range of LED coolers, specifically developed and thermally validated for all major brands of LED modules.

Our ECO partnerships also include close cooperations with key manufacturers of LED accessories like lenses, reflectors and LED holders.

Mechanical compatibility of all components is what our MechaTronix LED coolers stand for.

This document provides an easy overview of all MechaTronix LED coolers which are compatible with the Bender+Wirth LED holders.

With the combination of these LED coolers and the B+W LED holders, the assembly of LED COB's becomes an easy plug-and-play job without soldering and with a guaranteed perfect thermal fitting on the heat sink.



Permissible COB dimensions (mm)	LED COB Holders	Permissible COB dimensions (mm)	LED COB Holders
12.5 x 12.5	630 series - 660x	17.85 x 17.85	630 series - 637x
12 x 15	630 series - 652x	19 x 19	630 series - 633x
13.5 x 13.5	630 series - 634x	19 x 24	630 series - 663x
4pcs 13.5 x 13.5	MTX CoolConnect® holder 2x2MX-02	20 x 24	630 series - 632x
15.85 x 15.85	630 series - 641x	24 x 24	630 series - 639x
4pcs 15.85 x 15.85	MTX CoolConnect® holder 2x2MX-01	28 x 28	630 series - 631x MTX CoolConnect® holder COB 28x28
16 x 19	630 series - 638x	38 x 38	MTX CoolConnect® holder COB 38x38 MTX CoolConnect® holder COB 38x38 dual

- This is a non-binding overview of available B+W LED holders compatibility on MTX LED heat sinks.
- The B+W LED Holder Series 630 offers a wide range of different standard COB holders with different housings. For all possible variants, compatible LED CoB and further technical details, please visit <http://www.bender-wirth.com>

630 series housings:



LowProfile



Bayonet50



3Hook



Hekla

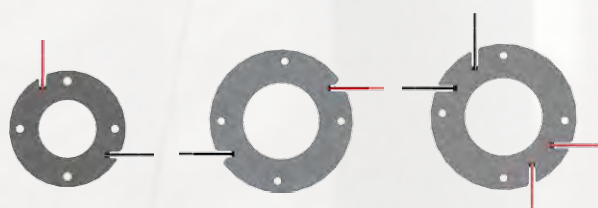


Lena

MTX CoolConnect® holders (Co-development with B+W):



2x2MX-01 / 02



COB 28x28 / 38x38 / 38x38 dual

LPF - PIN FIN LED COOLERS

LPF4768-ZHP

LED Pin Fin cooler

Zhaga Book 3 mounting holes for assembly of LED COB with B+W 630 holder

ø47mm - H68mm - Rth 3.9°C/W

Cooling performance 1,300 - 2,500 lm
Black or clear anodised



LPF6050-ZHC

LED Pin Fin cooler

Zhaga Book 3 mounting holes for assembly of LED COB with B+W 630 holder

ø60mm - H50mm - Rth 4.0°C/W

Cooling performance 1,200 - 2,300 lm
Black anodised



LPF6768-ZHP

LED Pin Fin cooler

Zhaga Book 3 mounting holes for assembly of LED COB with B+W 630 holder

ø67mm - H68mm - Rth 2.1°C/W

Cooling performance 2,300 - 4,600 lm
Black or clear anodised



LPF8050-ZHC

LED Pin Fin cooler

Zhaga Book 3 mounting holes for assembly of LED COB with B+W 630 holder

ø80mm - H50mm - Rth 2.34°C/W

Cooling performance 2,000 - 4,000 lm
Black anodised



LPF8668-ZHC

LED Pin Fin cooler

Zhaga Book 3 mounting holes for assembly of LED COB with B+W 630 holder

ø86mm - H68mm - Rth 1.46°C/W

Cooling performance 3,300 - 6,500 lm
Black or clear anodised



LPF11180-ZHE

LED Pin Fin cooler

Zhaga Book 3 mounting holes for assembly of LED COB with B+W 630 holder

ø111mm - H80mm - Rth 1.07°C/W

Cooling performance 4,800 - 9,600 lm
Black or clear anodised



COOLSTAR® - DESIGNER LED STAR COOLERS

CoolStar® Black / White 4740



Designer LED Star cooler

Zhaga Book 3 mounting holes for assembly of LED COB with B+W 630 holder

ø47mm - H40mm - Rth 5°C/W

Cooling performance 1,000 - 2,000 lm
Black anodized or white electro-coating finishing

CoolStar® Black / White 4760



Designer LED Star cooler

Zhaga Book 3 mounting holes for assembly of LED COB with B+W 630 holder

ø47mm - H60mm - Rth 4.17°C/W

Cooling performance 1,200 - 2,400 lm
Black anodized or white electro-coating finishing

CoolStar® Black / White 6730



Designer LED Star cooler

Zhaga Book 3 mounting holes for assembly of LED COB with B+W 630 holder

ø67mm - H30mm - Rth 3.13°C/W

Cooling performance 1,600 - 3,100 lm
Black anodized or white electro-coating finishing

CoolStar® Black / White 6760



Designer LED Star cooler

Zhaga Book 3 mounting holes for assembly of LED COB with B+W 630 holder

ø67mm - H60mm - Rth 2.27°C/W

Cooling performance 2,100 - 4,200 lm
Black anodized or white electro-coating finishing

CoolStar® Black / White 8630



Designer LED Star cooler

Zhaga Book 3 mounting holes for assembly of LED COB with B+W 630 holder

ø86mm - H30mm - Rth 2.08°C/W

Cooling performance 2,300 - 4,600 lm
Black anodized or white electro-coating finishing

CoolStar® Black / White 8660



Designer LED Star cooler

Zhaga Book 3 mounting holes for assembly of LED COB with B+W 630 holder

ø86mm - H60mm - Rth 1.56°C/W

Cooling performance 3,100 - 6,100 lm
Black anodized or white electro-coating finishing

MODULED - MODULAR LED COOLERS

ModuLED Pico 4750



Modular Passive LED Star cooler
Zhaga Book 3 mounting holes for assembly of LED COB with B+W 630 holder
ø47mm - H50mm - Rth 5.3°C/W
Cooling performance 900 - 1,800 lm
Black or clear anodised

ModuLED Pico 4780



Modular Passive LED Star cooler
Zhaga Book 3 mounting holes for assembly of LED COB with B+W 630 holder
ø47mm - H80mm - Rth 4.2°C/W
Cooling performance 1,200 - 2,300 lm
Black or clear anodised

ModuLED Nano 7050



Modular Passive LED Star cooler
Zhaga Book 3 mounting holes for assembly of LED COB with B+W 630 holder
ø70mm - H50mm - Rth 2.2°C/W
Cooling performance 2,200 - 4,300 lm
Black or clear anodised

ModuLED Nano 7080



Modular Passive LED Star cooler
Zhaga Book 3 mounting holes for assembly of LED COB with B+W 630 holder
ø70mm - H80mm - Rth 1.8°C/W
Cooling performance 2,700 - 5,300 lm
Black or clear anodised

ModuLED Micro 8630



Modular Passive LED Star cooler
Zhaga Book 3 mounting holes for assembly of LED COB with B+W 630 holder
ø86mm - H30mm - Rth 1.8°C/W
Cooling performance 2,700 - 5,300 lm
Black or clear anodised

ModuLED Micro 8650



Modular Passive LED Star cooler
Zhaga Book 3 mounting holes for assembly of LED COB with B+W 630 holder
ø86mm - H50mm - Rth 1.5°C/W
Cooling performance 3,200 - 6,400 lm
Black or clear anodised

ModuLED Micro 8680



Modular Passive LED Star cooler
Zhaga Book 3 mounting holes for assembly of LED COB with B+W 630 holder
ø86mm - H80mm - Rth 1.2°C/W
Cooling performance 4,000 - 8,000 lm
Black or clear anodised

ModuLED 9950



Modular Passive LED Star cooler
Zhaga Book 3 mounting holes for assembly of LED COB with B+W 630 holder
ø99mm - H50mm - Rth 1.34°C/W
Cooling performance 3,600 - 7,200 lm
Black or clear anodised

MODULED - MODULAR LED COOLERS

ModuLED 9980



Modular Passive LED Star cooler
Zhaga Book 3 mounting holes for assembly of LED COB with B+W 630 holder
Ø99mm - H80mm - Rth 1.02°C/W
Cooling performance 4,700 - 9,400 lm
Black or clear anodised

ModuLED Xtra 9950



Modular Passive LED Star cooler
Mounting holes for assembly of LED COB with B+W 630 holder and MTX CoolConnect® holder COB 28x28 (Co-development with B+W)
Ø99mm - H50mm - Rth 1.34°C/W
Cooling performance 3,600 - 7,200 lm
Black or clear anodised

ModuLED Xtra 9980



Modular Passive LED Star cooler
Mounting holes for assembly of LED COB with B+W 630 holder and MTX CoolConnect® holder COB 28x28 (Co-development with B+W)
Ø99mm - H80mm - Rth 1.02°C/W
Cooling performance 4,700 - 9,400 lm
Black or clear anodised

ModuLED Mega 13420



Modular Passive LED Star cooler
Mounting holes for assembly of LED COB with B+W 630 holder and MTX CoolConnect® holder COB 28x28 / 38x38 / 38x38 dual (Co-development with B+W)
Ø134mm - H20mm - Rth 1.32°C/W
Cooling performance 3,700 - 7,300 lm
Black anodised

ModuLED Mega 13450



Modular Passive LED Star cooler
Mounting holes for assembly of LED COB with B+W 630 holder and MTX CoolConnect® holder COB 28x28 / 38x38 / 38x38 dual (Co-development with B+W)
Ø134mm - H50mm - Rth 0.88°C/W
Cooling performance 5,500 - 11,000 lm
Black anodised

ModuLED Mega 134100



Modular Passive LED Star cooler
Mounting holes for assembly of LED COB with B+W 630 holder and MTX CoolConnect® holder COB 28x28 / 38x38 / 38x38 dual (Co-development with B+W)
Ø134mm - H100mm - Rth 0.67°C/W
Cooling performance 7,200 - 14,300 lm
Black anodised

ModuLED Giga 15220



Modular Passive LED Star cooler
Mounting holes for assembly of LED COB with B+W 630 holder and MTX CoolConnect® holder COB 28x28 / 38x38 / 38x38 dual (Co-development with B+W)
Ø152mm - H20mm - Rth 1.13°C/W
Cooling performance 4,300 - 8,500 lm
Black anodised

ModuLED Giga 15250



Modular Passive LED Star cooler
Mounting holes for assembly of LED COB with B+W 630 holder and MTX CoolConnect® holder COB 28x28 / 38x38 / 38x38 dual (Co-development with B+W)
Ø152mm - H50mm - Rth 0.7°C/W
Cooling performance 6,800 - 13,500 lm
Black anodised

ICELED ACTIVE LED COOLING

IceLED 450



Modular Active LED Star cooler
Zhaga Book 3 mounting holes for assembly of LED COB with B+W 630 holder
ø99mm - H45mm - Rth 0.58°C/W
Fan Voltage 12Vdc - 50mA
Fan Speed 1500RPM
Cooling performance 8,200 - 16,400 lm

IceLED 550



Modular Active LED Star cooler
Zhaga Book 3 mounting holes for assembly of LED COB with B+W 630 holder
ø99mm - H55mm - Rth 0.46°C/W
Fan Voltage 12Vdc - 50mA
Fan Speed 1500RPM
Cooling performance 10,500 - 21,000 lm

IceLED Xtra 550



Modular Active LED Star cooler
Mounting holes for assembly of LED COB with B+W 630 holder and MTX CoolConnect® holder COB 28x28 (Co-development with B+W)
ø99mm - H55mm - Rth 0.46°C/W
Fan Voltage 12Vdc - 50mA
Fan Speed 1500RPM
Cooling performance 10,500 - 21,000 lm

IceLED Ultra



Modular Active LED Star cooler
Zhaga Book 3 mounting holes for assembly of LED COB with B+W 630 holder
ø99mm - H75mm - Rth 0.25°C/W
Fan Voltage 12Vdc - 230mA
Fan Speed 3000RPM
Cooling performance 19,000 - 38,000 lm

IceLED Xtra Ultra



Modular Active LED Star cooler
Mounting holes for assembly of LED COB with B+W 630 holder and MTX CoolConnect® holder COB 28x28 (Co-development with B+W)
ø99mm - H75mm - Rth 0.25°C/W
Fan Voltage 12Vdc - 230mA
Fan Speed 3000RPM
Cooling performance 19,000 - 38,000 lm

IceLED Ultra VS



Modular Active LED Star cooler
Mounting holes for assembly of LED COB with B+W 630 holder and MTX CoolConnect® holder COB 28x28 (Co-development with B+W)
ø99mm - H75mm - Rth 0.26°C/W
Fan Voltage 12Vdc - 160mA
Fan Speed 2600RPM
Cooling performance 14,500 - 29,000 lm

HBG & COOLBAY® - HIGH BAY LED COOLING

ModuLED Mega 13450-HBG



High Bay LED cooler with direct mounting holes for assembly of LED COB with B+W 630 holder or MTX CoolConnect® holder COB 28x28 / 38x38 / 38x38 dual (Co-development with B+W) and Mean Well HBG series driver

ø134mm - H50mm - Rth 0.88°C/W

Cooling performance 5,500 - 11,000 lm
Black anodised

ModuLED Mega 134100-HBG



High Bay LED cooler with direct mounting holes for assembly of LED COB with B+W 630 holder or MTX CoolConnect® holder COB 28x28 / 38x38 / 38x38 dual (Co-development with B+W) and Mean Well HBG series driver

ø134mm - H100mm - Rth 0.67°C/W

Cooling performance 7,200 - 14,300 lm
Black anodised

ModuLED Giga 152100-HBG



High Bay LED cooler with direct mounting holes for assembly of LED COB with B+W 630 holder or MTX CoolConnect® holder COB 28x28 / 38x38 / 38x38 dual (Co-development with B+W) and Mean Well HBG series driver

ø152mm - H100mm - Rth 0.52°C/W

Cooling performance 9,000 - 18,000 lm
Black anodised

ModuLED Giga 152150-HBG



High Bay LED cooler with direct mounting holes for assembly of LED COB with B+W 630 holder or MTX CoolConnect® holder COB 28x28 / 38x38 / 38x38 dual (Co-development with B+W) and Mean Well HBG series driver

ø152mm - H150mm - Rth 0.46°C/W

Cooling performance 10,500 - 21,000 lm
Black anodised

CoolBay® Giga-A



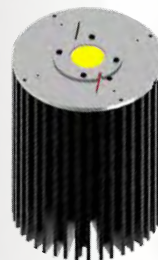
Advanced High Bay LED cooler with CoolTube® quadruple closed-loop heat pipe structure

Zhaga Book 3 mounting holes for assembly of LED COB with B+W 630 holder, and for Mean Well HBG-160 LED driver & various accessories

ø152mm - H200mm - Rth 0.34°C/W

Cooling performance 14,500 - 29,000 lm
Black nano coating

CoolBay® Giga-B



Advanced High Bay LED cooler with CoolTube® quadruple closed-loop heat pipe structure

Mounting holes for assembly of LED COB with B+W 630 holder and MTX CoolConnect® holder COB 28x28 / 38x38 / 38x38 dual (Co-development with B+W), and for Mean Well HBG-160 LED driver & various accessories

ø152mm - H200mm - Rth 0.34°C/W

Cooling performance 14,500 - 29,000 lm
Black nano coating

CoolBay® Tera-A



Advanced High Bay LED cooler with CoolTube® quadruple closed-loop heat pipe structure

Zhaga Book 3 mounting holes for assembly of LED COB with B+W 630 holder, and for Mean Well HBG-240 LED driver & various accessories

ø192mm - H250mm - Rth 0.22°C/W

Cooling performance 22,000 - 44,000 lm
Black nano coating

CoolBay® Tera-B



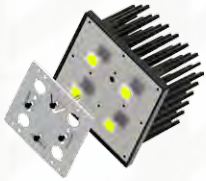
Advanced High Bay LED cooler with CoolTube® quadruple closed-loop heat pipe structure

Mounting holes for assembly of LED COB with B+W 630 holder and MTX CoolConnect® holder COB 28x28 / 38x38 / 38x38 dual (Co-development with B+W), and for Mean Well HBG-240 LED driver & various accessories

ø192mm - H250mm - Rth 0.22°C/W

Cooling performance 22,000 - 44,000 lm
Black nano coating

COOLBLOCK® & COOLBEAM® 2x2MX FAMILY



CoolBlock® SQ-01 2x2MX

Square Pin Fin LED Cooler for 2x2MX platform. Direct mounting holes for MTX & B+W co-development CoolConnect® holder 2x2MX-01 / -02 enabling assembly for 4pcs 15.85x15.85mm or 13.5x13.5mm COBs, and Ledil Strada 2x2MX lenses for IP67 waterproof with just a few screws

W96mm - L96mm - H61.5mm - Rth 1.45°C/W

Cooling performance 3,300 - 6,500 lm

Black electro-coating

The CoolBeam® kits allow assembly from 3 all the way up to 12 units of the CoolBlock® 2x2MX platform, to create your next high bay, industrial flood light or horticulture top light project from 4,000 to 60,000 lumen.



CoolBeam® SQ3-01



CoolBeam® SQ4-01



CoolBeam® SQ Dual



CoolBeam® SQ Triple

Your local distributor:

OUR PROCESS STARTS WITH LISTENING 



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