



for

LED



**EtraLED**

**EtraLED-PHI-9620 for Philips Modular Passive Star LED Heat Sink  $\Phi$ 96mm**

**Features VS Benefits**

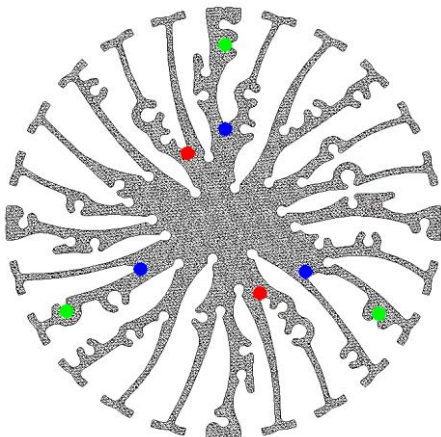
- \* The EtraLED-PHI-9620 Philips Modular Passive LED Coolers are specifically designed for luminaires using the Philips LED engines.
- \* Mechanical compatibility with direct mounting of the LED engines to the LED cooler and thermal performance matching the lumen packages.
- \* For spotlight and downlight designs from 800 to 3300 lumen.
- \* Thermal resistance range  $R_{th}$  1.8°C/W.
- \* Modular design with mounting holes foreseen for direct mounting of Philips SLM engines.
- \* Diameter 96mm - standard height 20mm Other heights on request.
- \* Extruded from highly conductive aluminum.



**Zhaga LED engine and radiator assembly is a unified future international standardization**

- \* Below you find an overview of philips engines COB's and LED modules which standard fit on the EtraLED coolers.
- \* In this way mechanical after work and related costs can be avoided, and lighting designers can standardize their designs on a limited number of LED coolers.

**PHILIPS**



Philips LED engines for which Zhaga book3 LED Modules holders are available.

**Philips Fortimo SLM LED modular Gen4:**

- Fortimo LED SLM 1100LM 827 L9 G4;
- Fortimo LED SLM 1100LM 830 L9 G4;
- Fortimo LED SLM 1100LM 840 L9 G4;
- Fortimo LED SLM 1100LM 827 L13 G4;
- Fortimo LED SLM 1100LM 830 L13 G4;
- Fortimo LED SLM 1100LM 840 L13 G4;
- Fortimo LED SLM 2000LM 830 L13 G4;
- Fortimo LED SLM 2000LM 840 L13 G4;
- Fortimo LED SLM 2000LM 927 L13 G4;
- Fortimo LED SLM 2000LM 930 L13 G4;
- Fortimo LED SLM 3000LM 830 L15 G4;
- Fortimo LED SLM 3000LM 840 L15 G4;
- Fortimo LED SLM 3000LM 927 L15 G4;
- Fortimo LED SLM 3000LM 930 L15 G4;

**Philips Fortimo SLM LED modular Gen3:**

- Fortimo LED SLM 2000LM 830 L19 G3;
- Fortimo LED SLM 2000LM 840 L19 G3;
- Fortimo LED SLM 2000LM 930 L19 G3;
- Fortimo LED SLM 3000LM 830 L19 G3;
- Fortimo LED SLM 3000LM 840 L19 G3;
- Fortimo LED SLM 3000LM 930 L19 G3;

**Philips Fortimo SLM LED modular Gen2:**

- Fortimo LED SLM 800LM XXX L13 G2;
- Fortimo LED SLM 1100LM XXX L13 G2;
- Fortimo LED SLM 2000LM XXX L19 G2;

**NO°1: Blue indicator marks:**

Direct mounting with machine screws M3x8mm;

NO°2: With Zhaga Book 3 LED holder for red indicator marks.

Direct mounting with machine screws M3x8mm;

**Philips Fortimo TDLM LED modulars:**

- Fortimo TDLM 1100 15W/830 230V G2;
- Fortimo TDLM 1100 14W/840 230V G2;
- Fortimo TDLM 1100 16W/830 230V G3;
- Fortimo TDLM 1100 15W/840 230V G3;

With Zhaga Book 2 LED holder for the gree indicator marks.

(BJB Holder:28.107.2001.50),

(AAG.STUCCHI holder:7100-D2);

Direct mounting with machine 2 screws M3x12mm;

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**Mounting Options and Drawings & Dimensions**

Example: EtraLED-PHI-9620-B-3

Example: EtraLED-PHI-96 **1** - **2** - **3**

**1** Height (mm)

**2** Anodising Color

B-Black

C-Clear

Z-Custom

**3** Mounting Options - see graphics for details Combinations available

Ex.order code - 12

means option 1 and 2 combined

**Notes:**

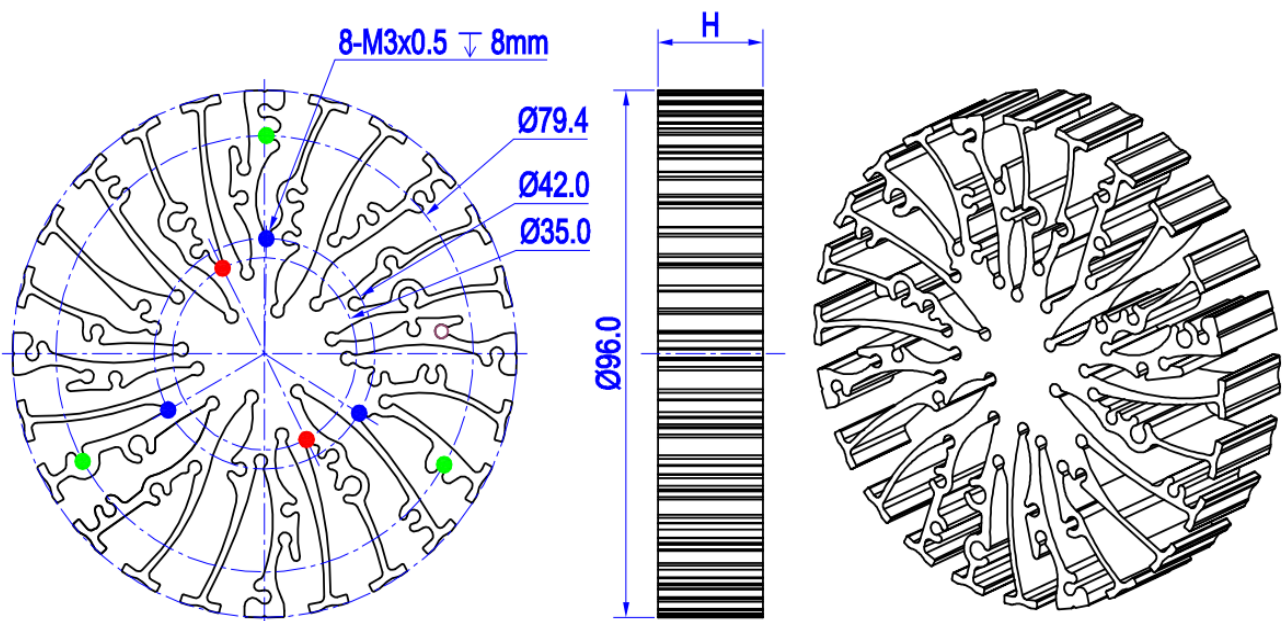
- Mentioned models are an extraction of full product range.
- For specific mechanical adaptations please contact MingfaTech.
- MingfaTech reserves the right to change products or specifications without prior notice.

PHILIPS



A. A. G. STUCCHI  
ideas are made of light

| MOUNTING OPTION | Module type       | Holder NO. | THREAD | THREAD DEPTH | THREAD HOLE DISTANCE |
|-----------------|-------------------|------------|--------|--------------|----------------------|
| 1               | Fortimo SLM       | /          | M3     | 8mm          | 35.0mm/ 2-@180°      |
| 2               |                   | /          | M3     | 8mm          | 42.0mm/ 3-@120°      |
| 3               | Fortimo TDLM 1100 | /          | M3     | 12mm         | 79.4mm/ 3-@120°      |



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The thermal data table

|   |   |
|---|---|
|   | <br><i>EtraLED-9620</i> |
| <b>Model No.</b>                                | <b>EtraLED-PHI-9620</b>   |
| <b>Size</b>                                     | <b>Φ96xH20mm</b>  |
| <b>Material</b>                                 | <b>AL6063-T5</b>  |
| <b>Finish</b>                                   | <b>Black Anodized</b>   |
| <b>Weight(gr)</b>                               | <b>144.0</b>  |
| <b>Thermal Wattage</b>                          | <b>28.0W</b>  |
| <b>HeatsinkOs-a<sup>2</sup></b>                 | <b>50647</b>  |
| <b>Heat Sink T<sub>Rise Above Ambient</sub></b> | <b>1.8</b>  |

| Dissipated Power Pd(W) | Pd = Pe x (1-ηL) | Heat sink to ambient thermal resistance Rhs-amb (°C/W) | Heat sink to ambient temperature rise Ths-amb (°C) |
|------------------------|------------------|--|--|
|                        |                  | EtraLED-PHI-9620                                       | EtraLED-PHI-9620                                   |
| 6                      |                  | 2.0  | 12   |
| 12                     |                  | 2.1  | 25   |
| 18                     |                  | 1.9  | 35   |
| 24                     |                  | 1.8  | 43   |
| 30                     |                  | 1.7  | 51   |

